SEQUENCE LISTING

```
(1) GENERAL INFORMATION
        (i) APPLICANT:
                                          East Carolina University et al.
        (ii) TITLE OF THE INVENTION:
                                         LOW ADENOSINE OLIGONUCLEOTIDE AGENT,
                                          COMPOSITION, KIT & TREATMENTS
        (iii) NUMBER OF SEQUENCES:
                                          3110
         (iv) CORRESPONDENCE ADDRESS:
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          (D) STATE:
                                         CA
          (E) COUNTRY:
                                         USA
          (F) ZIP:
                                          90071
         (v) COMPUTER READABLE FORM:
         (A) MEDIUM TYPE:
                                         Diskette
         (B) COMPUTER:
                                         IBM Compatible
         (C) OPERATING SYSTEM:
                                         DOS
         (D) SOFTWARE:
                                         FastSEQ for Windows Version 2.0
        (vi) CURRENT APPLICATION DATA:
         (A) APPLICATION NUMBER:
                                         PCT/US99/
         (B) FILING DATE:
                                         3-AUG-1999
         (C) CLASSIFICATION:
                                         UNKNOWN
       (vii) PRIOR APPLICATION DATA:
         (A) APPLICATION NUMBER:
                                         60/095,212
         (B) FILING DATE:
                                         03-AUG-1998
      (viii) ATTORNEY/AGENT INFORMATION:
         (A) NAME:
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         (B) REGISTRATION NUMBER:
                                         30,930
         (C) REFERENCE/DOCKET NUMBER:
                                         EPI-109
        (ix) TELECOMMUNICATION INFORMATION:
         (A) TELEPHONE:
                                         213-430-3520
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                                         213-617-9255
         (C) TELEX:
          (2) INFORMATION FOR SEQ ID NO:1:
         (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 21 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
        (ii) MOLECULE TYPE: cDNA
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
GATGGAGGGC GGCATGGCGG G
                                                                         21
          (2) INFORMATION FOR SEQ ID NO:2:
         (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 21 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
       (ii) MOLECULE TYPE: cDNA
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
GTAGCAGGCG GGGATGGGGG C
                                                                        21
         (2) INFORMATION FOR SEQ ID NO:3:
        (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 18 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
       (ii) MOLECULE TYPE: cDNA
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
GTTGTTGGGC ATCTTGCC
                                                                        18
         (2) INFORMATION FOR SEQ ID NO:4:
        (i) SEQUENCE CHARACTERISTICS:
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403254.1

(A) LENGTH: 18 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: GTACTTGCGG ATCTAGGC	18
(2) INFORMATION FOR SEQ ID NO:5: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5: GTGGGCCTAG CTCTCGCC	18
(2) INFORMATION FOR SEQ ID NO:6: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6: GTCGGGGTAC CTGTCGGC	18
(2) INFORMATION FOR SEQ ID NO:7: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	10
(2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	21
(2) INFORMATION FOR SEQ ID NO:9: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEO ID NO:9:	20
GGCCCAGGGC CAGCC (2) INFORMATION FOR SEQ ID NO:10: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	15
GGCCGGGCCA GCCGGGCCCG G (2) INFORMATION FOR SEQ ID NO:11:	21

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCTGGGC	50
(2) INFORMATION FOR SEQ ID NO:12: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 49 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTGGGC	49
(2) INFORMATION FOR SEQ ID NO:13: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGCTGGGC	48
(2) INFORMATION FOR SEQ ID NO:14: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 47 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCACAG GCTGGGC	47
(2) INFORMATION FOR SEQ ID NO:15: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG CTGGGC	46
(2) INFORMATION FOR SEQ ID NO:16: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16: CTGGAAAGCT GAGATGGAGG GCGCATGGC GGGCACAGGC TGGGC	45
 (2) INFORMATION FOR SEQ ID NO:17: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEO ID NO:17: 	13
TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACAGGCT GGGC	44

(0)	
(2) INFORMATION FOR SEQ ID NO:18:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 43 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
GGAAAGCTGA GATGGAGGC GGCATGGCGG GCACAGGCTG GGC	43
(2) INFORMATION FOR CEO ID NO. 10.	
(2) INFORMATION FOR SEQ ID NO:19:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 42 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CACAGGCTGG GC	42
GAAAGCIGAG AIGGAGGCCG GCAIGGCGGG CACAGGCIGG GC	42
(2) INFORMATION FOR SEQ ID NO:20:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 41 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCTGGG C	41
(2) INFORMATION FOR SEQ ID NO:21:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 40 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
AAGCTGAGAT GGAGGGCGC ATGGCGGGCA CAGGCTGGGC	40
(2) INFORMATION FOR GEO ID NO. 22.	
(2) INFORMATION FOR SEQ ID NO:22:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 39 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTGGGC	39
TOTOLOGIC TOOCOOON TOOCTOOO	33
/A) TVMARVAMTAN SAR TR NG CO	
(2) INFORMATION FOR SEQ ID NO:23:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 38 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
	38
GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGCTGGGC	38
(2) INFORMATION FOR SEQ ID NO:24:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 37 base pairs	
• • • • • • • • • • • • • • • • • • •	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
tari interveni illia CDMA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24: CTGAGATGGA GGGCGGCATG GCGGGCACAG GCTGGGC	37
(2) INFORMATION FOR SEQ ID NO:25: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25: TGAGATGGAG GGCGGCATGG CGGGCACAGG CTGGGC	36
(2) INFORMATION FOR SEQ ID NO:26: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26: GAGATGGAGG GCGGCATGGC GGGCACAGGC TGGGC	35
(2) INFORMATION FOR SEQ ID NO:27: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27: AGATGGAGGG CGGCATGGCG GGCACAGGCT GGGC	34
(2) INFORMATION FOR SEQ ID NO:28: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:28: GATGGAGGGC GGCATGGCGG GCACAGGCTG GGC	33
(2) INFORMATION FOR SEQ ID NO:29: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29: ATGGAGGGCG GCATGGCGGG CACAGGCTGG GC	32
(2) INFORMATION FOR SEQ ID NO:30: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30: TGGAGGGCGG CATGGCGGGC ACAGGCTGGG C	31
(2) INFORMATION FOR SEQ ID NO:31:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 30 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	

(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31: GGAGGGCGGC ATGGCGGCA CAGGCTGGGC	30
(2) INFORMATION FOR SEQ ID NO:32: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32: GAGGGCGGCA TGGCGGGCAC AGGCTGGGC	29
 (2) INFORMATION FOR SEQ ID NO:33: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33: 	
AGGGCGGCAT GGCGGGCACA GGCTGGGC	28
(2) INFORMATION FOR SEQ ID NO:34: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34: GGGCGGCATG GCGGGCC	27
(2) INFORMATION FOR SEQ ID NO:35: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35: GGCGGCATGG CGGGCACAGG CTGGGC	26
(2) INFORMATION FOR SEQ ID NO:36: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36: GCGGCATGGC GGGCACAGGC TGGGC	25
(2) INFORMATION FOR SEQ ID NO:37: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37: CGGCATGGCG GGCACAGGCT GGGC	24
(2) INFORMATION FOR SEQ ID NO:38: (i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38: GGCATGGCGG GCACAGGCTG GGC	23
(2) INFORMATION FOR SEQ ID NO:39: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39: GCATGGCGGG CACAGGCTGG GC	22
(2) INFORMATION FOR SEQ ID NO:40: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40: CATGGCGGGC ACAGGCTGGG C	21
(2) INFORMATION FOR SEQ ID NO:41: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41: ATGGCGGGCA CAGGCTGGGC	20
(2) INFORMATION FOR SEQ ID NO:42: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42: TGGCGGGCAC AGGCTGGGC	19
(2) INFORMATION FOR SEQ ID NO:43: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43: GGCGGGCACA GGCTGGGC	18
(2) INFORMATION FOR SEQ ID NO:44: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44: GCGGGCCACAG GCTGGGC	
	17

(2) INFORMATION FOR SEQ ID NO:45: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45: CGGGCACAGG CTGGGC	16
(2) INFORMATION FOR SEQ ID NO:46: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46: GGGCACAGGC TGGGC	15
(2) INFORMATION FOR SEQ ID NO:47: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47: GGCACAGGCT GGGC	14
(2) INFORMATION FOR SEQ ID NO:48: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48: GCACAGGCTG GGC	13
(2) INFORMATION FOR SEQ ID NO:49: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49: CACAGGCTGG GC	12
(2) INFORMATION FOR SEQ ID NO:50: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50: ACAGGCTGGG C	
(2) INFORMATION FOR SEQ ID NO:51: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:	11

CAGGCTGGGC	10
(2) INFORMATION FOR SEQ ID NO:52:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 9 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:	
AGGCTGGGC	9
(2) INFORMATION FOR SEQ ID NO:53:(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 51 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEC ID NO.53.	
GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCTGGG C	51
(2) INFORMATION FOR SEQ ID NO:54:(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCTGGG	
	50
(2) INFORMATION FOR SEQ ID NO:55:(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 49 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCTGG	49
(2) INFORMATION FOR SEQ ID NO:56:	4.9
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 48 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCTG	48
(2) INFORMATION FOR SEQ ID NO:57:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 47 base pairs	
(B) TYPE: nucleic acid	
<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	
GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCT	47
(2) INFORMATION FOR SEQ ID NO:58:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 46 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGC	46
(2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGG	45
(2) INFORMATION FOR SEQ ID NO:60: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAG	44
(2) INFORMATION FOR SEQ ID NO:61: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACA	43
(2) INFORMATION FOR SEQ ID NO:62: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC AC	42
(2) INFORMATION FOR SEQ ID NO:63: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC A	41
(2) INFORMATION FOR SEQ ID NO:64: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGGC	40
 (2) INFORMATION FOR SEQ ID NO:65: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid 	40

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGGG	39
(2) INFORMATION FOR SEQ ID NO:66: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCGG	38
(2) INFORMATION FOR SEQ ID NO:67: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGCG	37
(2) INFORMATION FOR SEQ ID NO:68: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGGC	36
(2) INFORMATION FOR SEQ ID NO:69: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATGG	35
(2) INFORMATION FOR SEQ ID NO:70: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:70: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CATG	34
(2) INFORMATION FOR SEQ ID NO:71: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CAT	33
(2) INFORMATION FOR SEQ ID NO:72: (i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG CA	32
(2) INFORMATION FOR SEQ ID NO:73: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG C	31
 (2) INFORMATION FOR SEQ ID NO:74: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74: GGCGGCCTGG AAAGCTGAGA TGGAGGGCGG (2) INFORMATION FOR SEQ ID NO:75:	30
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75: GGCGGCCTGG AAAGCTGAGA TGGAGGGCG	29
(2) INFORMATION FOR SEQ ID NO:76: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76: GGCGGCCTGG AAAGCTGAGA TGGAGGGC	28
 (2) INFORMATION FOR SEQ ID NO:77: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77: 	
GGCGGCCTGG AAAGCTGAGA TGGAGGG (2) INFORMATION FOR SEQ ID NO:78: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	27
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78: GGCGGCCTGG AAAGCTGAGA TGGAGG	26

(2) INFORMATION FOR SEQ ID NO:79: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79: GGCGGCCTGG AAAGCTGAGA TGGAG	25
(2) INFORMATION FOR SEQ ID NO:80: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80: GGCGGCCTGG AAAGCTGAGA TGGA	24
(2) INFORMATION FOR SEQ ID NO:81: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81: GGCGGCCTGG AAAGCTGAGA TGG	23
(2) INFORMATION FOR SEQ ID NO:82: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82: GGCGGCCTGG AAAGCTGAGA TG	22
(2) INFORMATION FOR SEQ ID NO:83: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83: GGCGGCCTGG AAAGCTGAGA T	21
(2) INFORMATION FOR SEQ ID NO:84: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84: GGCGGCCTGG AAAGCTGAGA	20
 (2) INFORMATION FOR SEQ ID NO:85: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEO ID NO:85: 	

GGCGGCCTGG AAAGCTGAG	19
(2) INFORMATION FOR SEQ ID NO:86: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86: GGCGGCCTGG AAAGCTGA	18
(2) INFORMATION FOR SEQ ID NO:87: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87: GGCGGCCTGG AAAGCTG	17
(2) INFORMATION FOR SEQ ID NO:88: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88: GGCGGCCTGG AAAGCT	16
(2) INFORMATION FOR SEQ ID NO:89: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89: GGCGGCCTGG AAAGC	15
(2) INFORMATION FOR SEQ ID NO:90: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90: GGCGGCCTGG AAAG	14
(2) INFORMATION FOR SEQ ID NO:91: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91: GGCGGCCTGG AAA	13
 (2) INFORMATION FOR SEQ ID NO:92: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92: GGCGGCCTGG AA	12
(2) INFORMATION FOR SEQ ID NO:93: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93: GGCGGCCTGG A	11
(2) INFORMATION FOR SEQ ID NO:94: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94: GGCGGCCTGG	10
(2) INFORMATION FOR SEQ ID NO:95: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCTGGGC	50
(2) INFORMATION FOR SEQ ID NO:96: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 49 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCTGGG	49
(2) INFORMATION FOR SEQ ID NO:97: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97: GCGGCCTGGA AAGCTGAGAT GGAGGGCCGC ATGGCCGGCA CAGGCTGG	48
(2) INFORMATION FOR SEQ ID NO:98: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 47 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCTG	47
(2) INFORMATION FOR SEQ ID NO:99:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 46 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCT	46
(2) INFORMATION FOR SEQ ID NO:100: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGC	45
(2) INFORMATION FOR SEQ ID NO:101: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGG	44
(2) INFORMATION FOR SEQ ID NO:102: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAG	43
(2) INFORMATION FOR SEQ ID NO:103: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CA	42
(2) INFORMATION FOR SEQ ID NO:104: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA C	41
(2) INFORMATION FOR SEQ ID NO:105: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGCCA	
(2) INFORMATION FOR SEQ ID NO:106: (i) SEQUENCE CHARACTERISTICS:	40

(A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106: GCGGCCTGGA AAGCTGAGAT GGAGGGCCGC ATGGCGGGC	39
(2) INFORMATION FOR SEQ ID NO:107: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGGG	38
(2) INFORMATION FOR SEQ ID NO:108: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:108: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCGG	37
(2) INFORMATION FOR SEQ ID NO:109: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGCG	36
(2) INFORMATION FOR SEQ ID NO:110: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGGC	35
(2) INFORMATION FOR SEQ ID NO:111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATGG	34
(2) INFORMATION FOR SEQ ID NO:112: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC ATG	22

(2) INFORMATION FOR SEQ ID NO:113: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC AT	32
(2) INFORMATION FOR SEQ ID NO:114: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114: GCGGCCTGGA AAGCTGAGAT GGAGGGCCGGC A	31
(2) INFORMATION FOR SEQ ID NO:115: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115: GCGGCCTGGA AAGCTGAGAT GGAGGGCGGC	30
(2) INFORMATION FOR SEQ ID NO:116: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116: GCGGCCTGGA AAGCTGAGAT GGAGGGCGG	29
(2) INFORMATION FOR SEQ ID NO:117: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117: GCGGCCTGGA AAGCTGAGAT GGAGGGCG	28
(2) INFORMATION FOR SEQ ID NO:118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118: GCGGCCTGGA AAGCTGAGAT GGAGGGC	27
(2) INFORMATION FOR SEQ ID NO:119: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:110	

GCGGCCTGGA AAGCTGAGAT GGAGGG	26
(2) INFORMATION FOR SEQ ID NO:120: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120: GCGGCCTGGA AAGCTGAGAT GGAGG	25
(2) INFORMATION FOR SEQ ID NO:121: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:	
GCGGCCTGGA AAGCTGAGAT GGAG (2) INFORMATION FOR SEQ ID NO:122: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	24
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122: GCGGCCTGGA AAGCTGAGAT GGA (2) INFORMATION FOR SEQ ID NO:123: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	23
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123: GCGGCCTGGA AAGCTGAGAT GG (2) INFORMATION FOR SEQ ID NO:124: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA</pre>	. 22
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:124: GCGGCCTGGA AAGCTGAGAT G (2) INFORMATION FOR SEQ ID NO:125: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125: GCGGCCTGGA AAGCTGAGAT	21
(2) INFORMATION FOR SEQ ID NO:126: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	20

(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126: GCGGCCTGGA AAGCTGAGA	19
(2) INFORMATION FOR SEQ ID NO:127: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127: GCGGCCTGGA AAGCTGAG	18
(2) INFORMATION FOR SEQ ID NO:128: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:	17
GCGGCCTGGA AAGCTGA	17
(2) INFORMATION FOR SEQ ID NO:129: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:129: GCGGCCTGGA AAGCTG	16
(2) INFORMATION FOR SEQ ID NO:130: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130: GCGGCCTGGA AAGCT	15
(2) INFORMATION FOR SEQ ID NO:131:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131: GCGGCCTGGA AAGC	14
(2) INFORMATION FOR SEQ ID NO:132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132: GCGGCCTGGA AAG	13
(2) INFORMATION FOR SEQ ID NO:133:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 12 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:133: GCGGCCTGGA AA	12
(2) INFORMATION FOR SEQ ID NO:134: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:134: GCGGCCTGGA A	11
(2) INFORMATION FOR SEQ ID NO:135: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:135: GCGGCCTGGA	10
(2) INFORMATION FOR SEQ ID NO:136: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 49 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:136: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTGGGC	49
(2) INFORMATION FOR SEQ ID NO:137: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTGGG	48
(2) INFORMATION FOR SEQ ID NO:138: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 47 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTGG	47
(2) INFORMATION FOR SEQ ID NO:139: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTG	46
(2) INFORMATION FOR SEQ ID NO:140:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:140: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCT	45
(2) INFORMATION FOR SEQ ID NO:141: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:141: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGCAC AGGC	44
(2) INFORMATION FOR SEQ ID NO:142: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:142: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGG	43
(2) INFORMATION FOR SEQ ID NO:143: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:143: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AG	42
(2) INFORMATION FOR SEQ ID NO:144: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:144: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC A	41
(2) INFORMATION FOR SEQ ID NO:145: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:145: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGCAC	40
(2) INFORMATION FOR SEQ ID NO:146: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:146: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA	30

(2) INFORMATION FOR SEQ ID NO:147: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGGC	38
(2) INFORMATION FOR SEQ ID NO:148: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGGG	37
(2) INFORMATION FOR SEQ ID NO:149: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:149: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCGG	36
(2) INFORMATION FOR SEQ ID NO:150: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:150: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGCG	35
(2) INFORMATION FOR SEQ ID NO:151: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:151: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGGC	34
(2) INFORMATION FOR SEQ ID NO:152: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:152: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TGG	33
 (2) INFORMATION FOR SEQ ID NO:153: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:153: 	

CGGCCTGGAA AGCTGAGATG GAGGGCGGCA TG	32
(2) INFORMATION FOR SEQ ID NO:154: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:154: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA T	31
(2) INFORMATION FOR SEQ ID NO:155: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:155: CGGCCTGGAA AGCTGAGATG GAGGGCGGCA	30
(2) INFORMATION FOR SEQ ID NO:156: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:156: CGGCCTGGAA AGCTGAGATG GAGGGCGGC	29
(2) INFORMATION FOR SEQ ID NO:157: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:157: CGGCCTGGAA AGCTGAGATG GAGGGCGG	28
(2) INFORMATION FOR SEQ ID NO:158: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:158: CGGCCTGGAA AGCTGAGATG GAGGGCG	27
(2) INFORMATION FOR SEQ ID NO:159: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:159: CGGCCTGGAA AGCTGAGATG GAGGGC	26
 (2) INFORMATION FOR SEQ ID NO:160: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:160: CGGCCTGGAA AGCTGAGATG GAGGG	25
(2) INFORMATION FOR SEQ ID NO:161: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:161: CGGCCTGGAA AGCTGAGATG GAGG	24
(2) INFORMATION FOR SEQ ID NO:162: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:162: CGGCCTGGAA AGCTGAGATG GAG	23
(2) INFORMATION FOR SEQ ID NO:163: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:163: CGGCCTGGAA AGCTGAGATG GA	22
(2) INFORMATION FOR SEQ ID NO:164: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:164: CGGCCTGGAA AGCTGAGATG G	21
(2) INFORMATION FOR SEQ ID NO:165: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:165: CGGCCTGGAA AGCTGAGATG	20
(2) INFORMATION FOR SEQ ID NO:166: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:166: CGGCCTGGAA AGCTGAGAT	19
(2) INFORMATION FOR SEQ ID NO:167:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:167: CGGCCTGGAA AGCTGAGA	18
(2) INFORMATION FOR SEQ ID NO:168: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:168: CGGCCTGGAA AGCTGAG	17
 (2) INFORMATION FOR SEQ ID NO:169: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:169: CGGCCTGGAA AGCTGA	16
 (2) INFORMATION FOR SEQ ID NO:170: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:170: 	
CGGCCTGGAA AGCTG	15
(2) INFORMATION FOR SEQ ID NO:171: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:171: CGGCCTGGAA AGCT	
(2) INFORMATION FOR SEQ ID NO:172:	14
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:172: CGGCCTGGAA AGC	13
 (2) INFORMATION FOR SEQ ID NO:173: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:173: 	10
CGGCCTGGAA AG	12
(2) INFORMATION FOR SEC ID NO.174.	

(2) INFORMATION FOR SEQ ID NO:174:
(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:174: CGGCCTGGAA A	11
(2) INFORMATION FOR SEQ ID NO:175: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:175: CGGCCTGGAA	10
(2) INFORMATION FOR SEQ ID NO:176: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:176: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCCGGCACA GGCTGGGC	48
(2) INFORMATION FOR SEQ ID NO:177: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 47 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:177: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGCTGGG	47
(2) INFORMATION FOR SEQ ID NO:178: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGCTGG	46
(2) INFORMATION FOR SEQ ID NO:179: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGCACA GGCTG	45
(2) INFORMATION FOR SEQ ID NO:180: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180: GGCCTGGAAA GCTGAGATGG AGGGCGCAT GGCGGCACA GGCT	44

(2) INFORMATION FOR SEQ ID NO:181: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:181: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGC	43
(2) INFORMATION FOR SEQ ID NO:182: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:182: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGCACA GG	42
(2) INFORMATION FOR SEQ ID NO:183: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:183: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGCACA G	41
(2) INFORMATION FOR SEQ ID NO:184: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:184: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGCACA	40
(2) INFORMATION FOR SEQ ID NO:185: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:185: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGCAC	39
(2) INFORMATION FOR SEQ ID NO:186: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:186: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGCA	38
(2) INFORMATION FOR SEQ ID NO:187: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:	

GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGGC	37
(2) INFORMATION FOR SEQ ID NO:188: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:188: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGGG	. 36
(2) INFORMATION FOR SEQ ID NO:189: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:189: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCGG	35
(2) INFORMATION FOR SEQ ID NO:190: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:190: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGCG	34
(2) INFORMATION FOR SEQ ID NO:191: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:191: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GGC	33
(2) INFORMATION FOR SEQ ID NO:192: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT GG	32
(2) INFORMATION FOR SEQ ID NO:193: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT G	31
 (2) INFORMATION FOR SEQ ID NO:194: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194: GGCCTGGAAA GCTGAGATGG AGGGCGGCAT	30
(2) INFORMATION FOR SEQ ID NO:195: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:195: GGCCTGGAAA GCTGAGATGG AGGGCGGCA	29
(2) INFORMATION FOR SEQ ID NO:196: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:196: GGCCTGGAAA GCTGAGATGG AGGGCGGC	
(2) INFORMATION FOR SEQ ID NO:197: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:	28
GGCCTGGAAA GCTGAGATGG AGGGCGG (2) INFORMATION FOR SEQ ID NO:198: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	27
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:198: GGCCTGGAAA GCTGAGATGG AGGGCG (2) INFORMATION FOR SEQ ID NO:199: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA</pre>	26
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:199: GGCCTGGAAA GCTGAGATGG AGGGC (2) INFORMATION FOR SEQ ID NO:200: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	25
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:200: GGCCTGGAAA GCTGAGATGG AGGG (2) INFORMATION FOR SEQ ID NO:201: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid 	24

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:201: GGCCTGGAAA GCTGAGATGG AGG	23
(2) INFORMATION FOR SEQ ID NO:202: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:202: GGCCTGGAAA GCTGAGATGG AG	22
(2) INFORMATION FOR SEQ ID NO:203: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:203: GGCCTGGAAA GCTGAGATGG A	21
(2) INFORMATION FOR SEQ ID NO:204: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:204: GGCCTGGAAA GCTGAGATGG	20
(2) INFORMATION FOR SEQ ID NO:205: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:205: GGCCTGGAAA GCTGAGATG	19
(2) INFORMATION FOR SEQ ID NO:206: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:206: GGCCTGGAAA GCTGAGAT	18
(2) INFORMATION FOR SEQ ID NO:207: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:207: GGCCTGGAAA GCTGAGA	17
(2) INFORMATION FOR SEQ ID NO:208: (i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:208: GGCCTGGAAA GCTGAG	16
(2) INFORMATION FOR SEQ ID NO:209: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:209: GGCCTGGAAA GCTGA	15
(2) INFORMATION FOR SEQ ID NO:210: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:210: GGCCTGGAAA GCTG	14
(2) INFORMATION FOR SEQ ID NO:211: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:211: GGCCTGGAAA GCT	13
(2) INFORMATION FOR SEQ ID NO:212: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:212: GGCCTGGAAA GC	12
(2) INFORMATION FOR SEQ ID NO:213: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:213: GGCCTGGAAA G	11
(2) INFORMATION FOR SEQ ID NO:214: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:214: GGCCTGGAAA	10

(2) INFORMATION FOR SEQ ID NO:215: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 47 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCACAG GCTGGGC	47
(2) INFORMATION FOR SEQ ID NO:216: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:216: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCACAG GCTGGG	46
(2) INFORMATION FOR SEQ ID NO:217: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:217: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCACAG GCTGG	45
(2) INFORMATION FOR SEQ ID NO:218: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:218: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCACAG GCTG	44
(2) INFORMATION FOR SEQ ID NO:219: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:219: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCACAG GCT	43
(2) INFORMATION FOR SEQ ID NO:220: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:220: GCCTGGAAAG CTGAGATGGA GGGCGCATG GCGGGCACAG GC	42
(2) INFORMATION FOR SEQ ID NO:221: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:	

GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCACAG G	41
(2) INFORMATION FOR SEQ ID NO:222: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:222: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCACAG	40
(2) INFORMATION FOR SEQ ID NO:223: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:223: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCACA	39
(2) INFORMATION FOR SEQ ID NO:224: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:224: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCAC	38
(2) INFORMATION FOR SEQ ID NO:225: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:225: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGCA	37
(2) INFORMATION FOR SEQ ID NO:226: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:226: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGGC	36
(2) INFORMATION FOR SEQ ID NO:227: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:227: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGGG	35
(2) INFORMATION FOR SEQ ID NO:228: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	30

(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:228: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCGG	34
(2) INFORMATION FOR SEQ ID NO:229: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:229: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GCG	
	33
 (2) INFORMATION FOR SEQ ID NO:230: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:230: GCCTGGAAAG CTGAGATGGA GGGCGGCATG GC	20
(2) INFORMATION FOR SEQ ID NO:231:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 31 base pairs	32
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:231: GCCTGGAAAG CTGAGATGGA GGGCGGCATG G (2) INFORMATION FOR SEQ ID NO:232:	31
(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:232: GCCTGGAAAG CTGAGATGGA GGGCGGCATG	30
(2) INFORMATION FOR SEQ ID NO:233: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:233:	
GCCTGGAAAG CTGAGATGGA GGGCGGCAT (2) INFORMATION FOR SEQ ID NO:234: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	29
(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:234: GCCTGGAAAG CTGAGATGGA GGGCGGCA (2) INFORMATION FOR SEO ID NO:235:	28
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:235: GCCTGGAAAG CTGAGATGGA GGGCGGC	27
(2) INFORMATION FOR SEQ ID NO:236: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:236: GCCTGGAAAG CTGAGATGGA GGGCGG	26
(2) INFORMATION FOR SEQ ID NO:237: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:237: GCCTGGAAAG CTGAGATGGA GGGCG	25
(2) INFORMATION FOR SEQ ID NO:238: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:238: GCCTGGAAAG CTGAGATGGA GGGC	24
(2) INFORMATION FOR SEQ ID NO:239: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:239: GCCTGGAAAG CTGAGATGGA GGG	23
(2) INFORMATION FOR SEQ ID NO:240: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:240: GCCTGGAAAG CTGAGATGGA GG	22
(2) INFORMATION FOR SEQ ID NO:241: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:241: GCCTGGAAAG CTGAGATGGA G	21
(2) INFORMATION FOR SEQ ID NO:242: (i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:242: GCCTGGAAAG CTGAGATGGA	20
(2) INFORMATION FOR SEQ ID NO:243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:243: GCCTGGAAAG CTGAGATGG	1.0
(2) INFORMATION FOR SEQ ID NO:244: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	19
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:244: GCCTGGAAAG CTGAGATG (2) INFORMATION FOR SEQ ID NO:245: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs	18
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:245: GCCTGGAAAG CTGAGAT (2) INFORMATION FOR SEQ ID NO:246: (i) SEQUENCE CHARACTERISTICS:	17
(A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:246: GCCTGGAAAG CTGAGA (2) INFORMATION FOR SEQ ID NO:247: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	16
(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:247: GCCTGGAAAG CTGAG	15
(2) INFORMATION FOR SEQ ID NO:248: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:248:	
GCCTGGAAAG CTGA	14

(2) INFORMATION FOR SEQ ID NO:249: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:249: GCCTGGAAAG CTG	13
(2) INFORMATION FOR SEQ ID NO:250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:250: GCCTGGAAAG CT	12
(2) INFORMATION FOR SEQ ID NO:251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:251: GCCTGGAAAG C	11
(2) INFORMATION FOR SEQ ID NO:252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:252: GCCTGGAAAG	10
(2) INFORMATION FOR SEQ ID NO:253: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:253: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG CTGGGC	46
(2) INFORMATION FOR SEQ ID NO:254: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:254: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG CTGGG	45
 (2) INFORMATION FOR SEQ ID NO:255: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:255. 	

(2) INFORMATION FOR SEQ ID NO:256: (1) SEQUENCE CHARACTERISTICS: (3) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: CDNA (X1) SEQUENCE DESCRIPTION: SEQ ID NO:256: CCTGGARAGG TEAGATGGAG GCCGGCATGG CGGCACAGG CTG (2) INFORMATION FOR SEQ ID NO:257: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (11) MOLECULE TYPE: CDNA (X1) SEQUENCE DESCRIPTION: SEQ ID NO:257: CCTGGARAGG TGAGATGGAG GCCGGCATGG CGGCCACAGG CT (2) INFORMATION FOR SEQ ID NO:258: (1) SEQUENCE DESCRIPTION: SEQ ID NO:258: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (11) MOLECULE TYPE: CDNA (X1) SEQUENCE DESCRIPTION: SEQ ID NO:259: (1) SEQUENCE GESCRAGG CGGGCACAGG C (2) INFORMATION FOR SEQ ID NO:259: (1) SEQUENCE GESCRAGG CGGGCACAGG C (2) INFORMATION FOR SEQ ID NO:259: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: CDNA (X1) SEQUENCE DESCRIPTION: SEQ ID NO:259: (CTGGARAGC TGAGATGGA GCGGGCACAGG C (2) INFORMATION FOR SEQ ID NO:259: (CTGGARAGC TGAGATGGA GCGGCACAGG C (2) INFORMATION FOR SEQ ID NO:260: (1) SEQUENCE DESCRIPTION: SEQ ID NO:260: (1) SEQUENCE DESCRIPTION: SEQ ID NO:260: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: cDNA (X1) SEQUENCE DESCRIPTION: SEQ ID NO:261: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: cDNA (X2) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: cDNA (II) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: cDNA (II) SEQUENCE CHARACTERISTIC	CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG CTGG	44
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:256: CCTGGAAAGC TGAGATGGAG GGGGCATGG CGGCACAGG CTG (2) INFORMATION FOR SEQ ID NO:257: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:257: CCTGGAAAGC TGAGATGGAG GGGGGCATGG CGGGCACAGG CT (2) INFORMATION FOR SEQ ID NO:258: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:258: CCTGGAAAGC TGAGATGGAG GGGGGCATGG CGGCACAGG C (2) INFORMATION FOR SEQ ID NO:259: (A) LENGTH: 40 base pairs (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: (CTGGAAAGC TGAGATGGAG GGGGGCATGG CGGGCACAGG (C) INFORMATION FOR SEQ ID NO:259: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: (i) SEQUENCE DESCRIPTION: SEQ ID NO:261: (i) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: CDNA (XI) SEQUENCE DESCRIPTION: SEQ ID NO:261: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: CDNA (XI) SEQUENCE DESCRIPTION: SEQ ID NO:261: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (S) SEQUENCE DESCRIPTION: SEQ	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs	
(XI) SEQUENCE DESCRIPTION; SEQ ID NO:255: CCTGGAAAGC TGAGATGAG GGCGCATGG CGGCACAGG CTG (2) INFORMATION FOR SEQ ID NO:257: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (XI) SEQUENCE DESCRIPTION: SEQ ID NO:257: CCTGGAAAGC TGAGATGGAG GGCGCATGG CGGCACAGG CT (2) INFORMATION FOR SEQ ID NO:258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) INFORMATION FOR SEQ ID NO:259: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (XI) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: (1) SEQUENCE DESCRIPTION: SEQ ID NO:260: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (XI) SEQUENCE DESCRIPTION: SEQ ID NO:261: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: DNA (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: DNA (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: DNA (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:257: CCTGGARAGC TGAGATGGAG GCGGCATGG CGGCCACAGG CT (2) INFORMATION FOR SEQ ID NO:258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:258: CCTGGARAGC TGAGATGGAG GCCGGCATGG CGGCCACAGG C (2) INFORMATION FOR SEQ ID NO:259: (1) SEQUENCE DESCRIPTION: SEQ ID NO:259: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGARAGC TGAGATGGAG GCGGCCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: (C) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: CDNA (XI) SEQUENCE DESCRIPTION: SEQ ID NO:261: (C) STRANDEDNESS: single	(xi) SEQUENCE DESCRIPTION: SEO ID NO:256:	43
(D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:257: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG CT (2) INFORMATION FOR SEQ ID NO:258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:258: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG C (2) INFORMATION FOR SEQ ID NO:259: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGCATGG CGGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: (1) SEQUENCE DESCRIPTION: SEQ ID NO:260: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGCATGG CGGGCACAGG (2) INFORMATION FOR SEQ ID NO:261: (1) SEQUENCE DESCRIPTION: SEQ ID NO:261: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: uncleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: CDNA (XI) SEQUENCE DESCRIPTION: SEQ ID NO:261: (C) STRANDEDNESS: SINGLE (D) TOPOLOGY: linear (II) MOLECULE TYPE: CDNA (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: uncleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) MOLECULE TYPE: CDNA (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: uncleic acid (C) STRANDEDNESS: single	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 42 base pairs(B) TYPE: nucleic acid	
(2) INFORMATION FOR SEQ ID NO:258: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:258: CCTGGAAAGC TGAGATGGAG GGGGGCATGG CGGGCACAGG C (2) INFORMATION FOR SED ID NO:259: (i) SEQUENCE CHARACTERISTICS: (A) LENCTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG (2) INFORMATION FOR SED ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG (2) INFORMATION FOR SED ID NO:260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGACATGGAG GCGGCATGG CGGGCACAG (2) INFORMATION FOR SED ID NO:260: CCTGGAAAGC TGACATGGAG GCGGCATGG CGGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (iii) MOLECULE TYPE: cDNA (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (II) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:258: CCTGGAAAGC TGAGATGGAG GCGGCATG CGGGCACAGG C (2) INFORMATION FOR SEQ ID NO:259: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GCGGCATGG CGGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGAG GGCGGCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: CCTGGAAAGC TGAGATGAGG GCGGCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG CT	42
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:258: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCCACAGG C (2) INFORMATION FOR SEQ ID NO:259: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCCACAGG (2) INFORMATION FOR SEQ ID NO:260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGCATGG CGGCCACAG (2) INFORMATION FOR SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA (2) INFORMATION FOR SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA (2) INFORMATION FOR SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (C) STRANDEDNESS: single	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 41 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	
(2) INFORMATION FOR SEQ ID NO:259: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGAAAGC TGAGATGAGG GCGGCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: (i) SEQUENCE DESCRIPTION: SEQ ID NO:260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE DESCRIPTION: SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGACATGGAG GGCGCATGG CGGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (C) STRANDEDNESS: single	(ii) MOLECULE TYPE: cDNA	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (C) STRANDEDNESS: single	CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG C	41
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCACAG 39 (2) INFORMATION FOR SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCACA (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACA (Z) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:259: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACA 38 (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
CCTGGAAAGC TGAGATGAG GGCGGCATGG CGGGCACAGG (2) INFORMATION FOR SEQ ID NO:260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA 38 (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	(xi) SEQUENCE DESCRIPTION: SEO ID NO.259.	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGCATGG CGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (C) STRANDEDNESS: single	CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAGG	40
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 39 base pairs	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	(C) STRANDEDNESS: single	
CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAG (2) INFORMATION FOR SEQ ID NO:261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEO ID NO 260	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACAG	39
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGCATGG CGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 38 base pairs	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA (2) INFORMATION FOR SEQ ID NO:262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO 261.	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 37 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCACA	38
(C) STRANDEDNESS: single	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 37 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

<pre>(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:262: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCAC</pre>	37
(2) INFORMATION FOR SEQ ID NO:263: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:263:	
CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGCA	36
(2) INFORMATION FOR SEQ ID NO:264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:264: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGGC	35
(2) INFORMATION FOR SEQ ID NO:265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:265: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGGG	34
(2) INFORMATION FOR SEQ ID NO:266: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:266: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CGG	33
(2) INFORMATION FOR SEQ ID NO:267: (i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:267: CCTGGAAAGC TGAGATGGAG GGCGGCATGG CG	32
(2) INFORMATION FOR SEQ ID NO:268: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:268: CCTGGAAAGC TGAGATGGAG GGCGGCATGG C	31
(2) INFORMATION FOR SEQ ID NO:269:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 30 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:269: CCTGGAAAGC TGAGATGGAG GGCGGCATGG	30
(2) INFORMATION FOR SEQ ID NO:270: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:270: CCTGGAAAGC TGAGATGGAG GGCGGCATG	29
(2) INFORMATION FOR SEQ ID NO:271: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:271: CCTGGAAAGC TGAGATGGAG GGCGGCAT	28
(2) INFORMATION FOR SEQ ID NO:272: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:272: CCTGGAAAGC TGAGATGGAG GGCGGCA	27
(2) INFORMATION FOR SEQ ID NO:273: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:273: CCTGGAAAGC TGAGATGAG GGCGGC	26
(2) INFORMATION FOR SEQ ID NO:274: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:274: CCTGGAAAGC TGAGATGGAG GGCGG	25
(2) INFORMATION FOR SEQ ID NO:275: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:275: CCTGGAAAGC TGAGATGGAG GGCG	24
(2) INFORMATION FOR SEQ ID NO:276:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:276: CCTGGAAAGC TGAGATGGAG GGC	23
(2) INFORMATION FOR SEQ ID NO:277: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:277: CCTGGAAAGC TGAGATGGAG GG	22
(2) INFORMATION FOR SEQ ID NO:278: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:278:	
(2) INFORMATION FOR SEQ ID NO:279: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	21
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:279: CCTGGAAAGC TGAGATGGAG (2) INFORMATION FOR SEQ ID NO:280: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:280:</pre>	20
CCTGGAAAGC TGAGATGGA (2) INFORMATION FOR SEQ ID NO:281: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	19
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:281: CCTGGAAAGC TGAGATGG (2) INFORMATION FOR SEQ ID NO:282: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA	18
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:282: CCTGGAAAGC TGAGATG	17

 (2) INFORMATION FOR SEQ ID NO:283: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:283: CCTGGAAAGC TGAGAT (2) INFORMATION FOR SEQ ID NO:284: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid	16
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:284: CCTGGAAAGC TGAGA	15
(2) INFORMATION FOR SEQ ID NO:285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:285: CCTGGAAAGC TGAG	14
(2) INFORMATION FOR SEQ ID NO:286: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:286: CCTGGAAAGC TGA	13
(2) INFORMATION FOR SEQ ID NO:287: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:287: CCTGGAAAGC TG	12
(2) INFORMATION FOR SEQ ID NO:288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:288:	11
(2) INFORMATION FOR SEQ ID NO:289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	11
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:289:	10

(2) INFORMATION FOR SEQ ID NO:290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:290: CTGGAAAGCT GAGATGGAGG GCGGCATGGC GGGCACAGGC TGGGC	45
(2) INFORMATION FOR SEQ ID NO:291: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:291: CTGGAAAGCT GAGATGGAGG GCGGCATGGC GGGCACAGGC TGGG	44
 (2) INFORMATION FOR SEQ ID NO:292: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:292: CTGGAAAGCT GAGATGGAGG GCGCATGGC GGGCACAGGC TGG (2) INFORMATION FOR SEQ ID NO:293:	43
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:293: CTGGAAAGCT GAGATGGAGG GCGCATGGC GGGCACAGGC TG	42
 (2) INFORMATION FOR SEQ ID NO:294: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:294: 	
CTGGAAAGCT GAGATGGAGG GCGCATGGC GGGCACAGGC T (2) INFORMATION FOR SEQ ID NO:295: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	41
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:295: CTGGAAAGCT GAGATGGAGG GCGCATGGC GGGCACAGGC (2) INFORMATION FOR SEQ ID NO:296: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs 	40
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:296: CTGGAAAGCT GAGATGGAGG GCGGCATGGC GGGCACAGG	39
(2) INFORMATION FOR SEQ ID NO:297: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:297: CTGGAAAGCT GAGATGGAGG GCGGCATGGC GGGCACAG	
(2) INFORMATION FOR SEQ ID NO:298: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:298: CTGGAAAGCT GAGATGGAGG GCGGCATGGC GGGCACA	37
(2) INFORMATION FOR SEQ ID NO:299: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:299: CTGGAAAGCT GAGATGGAGG GCGGCATGGC GGGCAC	36
(2) INFORMATION FOR SEQ ID NO:300: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:300: CTGGAAAGCT GAGATGGAGG GCGGCATGGC GGGCA	35
(2) INFORMATION FOR SEQ ID NO:301: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:301: CTGGAAAGCT GAGATGGAGG GCGGCATGGC GGGC	34
(2) INFORMATION FOR SEQ ID NO:302: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:302: CTGGAAAGCT GAGATGGAGG GCGGCATGGC GGG	33
 (2) INFORMATION FOR SEQ ID NO:303: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:303: 	

(2) INFORMATION FOR SEQ ID NO:311:	CTGGAAAGCT GAGATGGAGG GCGGCATGGC GG	32
(i) SEQUENCE CHARACTERISTICS:	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:304: 	31
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:306: CTGGAAAGCT GAGATGGAGG GCGCAATGG (2) INFORMATION FOR SEQ ID NO:307: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:307: CTGGAAAGCT GAGATGGAGG GCGCATG (2) INFORMATION FOR SEQ ID NO:308: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:308: CTGGAAAGCT GAGATGGAGG GCGCAT (2) INFORMATION FOR SEQ ID NO:309: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:309: CTGGAAAGCT GAGATGGAGG GCGCA (2) INFORMATION FOR SEQ ID NO:310: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CESCRIPTION: SEQ ID NO:310: CTGGAAAGCT GAGATGGAGG GCGC (2) INFORMATION FOR SEQ ID NO:310:	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:305: 	30
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:307: CTGGAAAGCT GAGATGGAGG GCGGCATG (2) INFORMATION FOR SEQ ID NO:308: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:308: CTGGAAAGCT GAGATGGAGG GCGGCAT (2) INFORMATION FOR SEQ ID NO:309: (i) SEQUENCE DESCRIPTION: SEQ ID NO:309: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:309: CTGGAAAGCT GAGATGGAGG GCGCA (2) INFORMATION FOR SEQ ID NO:310: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:310: CTGGAAAGCT GAGATGGAGG GCGGC 25 (2) INFORMATION FOR SEQ ID NO:311:	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:306: 	29
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:308: CTGGAAAGCT GAGATGGAGG GCGCAT (2) INFORMATION FOR SEQ ID NO:309: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:309: CTGGAAAGCT GAGATGGAGG GCGCA (2) INFORMATION FOR SEQ ID NO:310: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:310: CTGGAAAGCT GAGATGGAGG GCGCC 25 (2) INFORMATION FOR SEQ ID NO:311:	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:307: CTGGAAAGCT GAGATGGAGG GCGGCATG	28
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:309: CTGGAAAGCT GAGATGGAGG GCGCA (2) INFORMATION FOR SEQ ID NO:310: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:310: CTGGAAAGCT GAGATGGAGG GCGGC 25 (2) INFORMATION FOR SEQ ID NO:311:	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:308: CTGGAAAGCT GAGATGGAGG GCGGCAT	27
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:310: CTGGAAAGCT GAGATGGAGG GCGGC 25 (2) INFORMATION FOR SEQ ID NO:311:	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:309: 	26
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:310: CTGGAAAGCT GAGATGGAGG GCGGC (2) INFORMATION FOR SEQ ID NO:311: (i) SEQUENCE CHARACTERISTICS:	25

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:311: CTGGAAAGCT GAGATGGAGG GCGG	24
(2) INFORMATION FOR SEQ ID NO:312: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:312: CTGGAAAGCT GAGATGGAGG GCG	23
(2) INFORMATION FOR SEQ ID NO:313: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:313: CTGGAAAGCT GAGATGGAGG GC	22
(2) INFORMATION FOR SEQ ID NO:314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:314: CTGGAAAAGCT GAGATGGAGG G	21
(2) INFORMATION FOR SEQ ID NO:315: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:315: CTGGAAAGCT GAGATGGAGG	20
(2) INFORMATION FOR SEQ ID NO:316: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:316:	
CTGGAAAGCT GAGATGGAG (2) INFORMATION FOR SEQ ID NO:317: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:317:	19
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:317: CTGGAAAGCT GAGATGA (2) INFORMATION FOR SEQ ID NO:318: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	18
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:318: CTGGAAAGCT GAGATGG	17

(2) INFORMATION FOR SEQ ID NO:319: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:319: CTGGAAAAGCT GAGATG	16
(2) INFORMATION FOR SEQ ID NO:320: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:320: CTGGAAAGCT GAGAT	15
 (2) INFORMATION FOR SEQ ID NO:321: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:321: 	13
CTGGAAAGCT GAGA (2) INFORMATION FOR SEQ ID NO:322: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:322:	14
CTGGAAAGCT GAG (2) INFORMATION FOR SEQ ID NO:323: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:323:	13
CTGGAAAGCT GA (2) INFORMATION FOR SEQ ID NO:324: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:324:	12
(2) INFORMATION FOR SEQ ID NO:325: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:325:	11
CTGGAAAGCT (2) INFORMATION FOR SEQ ID NO:326: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid	10

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:326: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACAGGCT GGGC	4.4
(2) INFORMATION FOR SEQ ID NO:327: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:327: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACAGGCT GGG	43
(2) INFORMATION FOR SEQ ID NO:328: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:328: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACAGGCT GG	42
(2) INFORMATION FOR SEQ ID NO:329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:329: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACAGGCT G	41
(2) INFORMATION FOR SEQ ID NO:330: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:330: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACAGGCT	40
(2) INFORMATION FOR SEQ ID NO:331: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:331: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACAGGC	39
(2) INFORMATION FOR SEQ ID NO:332: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:332: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACAGG	38
 (2) INFORMATION FOR SEQ ID NO:333: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:333: 	33
TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACAG	37

(2) INFORMATION FOR SEQ ID NO:334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:334: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCACA	36
(2) INFORMATION FOR SEQ ID NO:335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:335: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCAC	35
(2) INFORMATION FOR SEQ ID NO:336: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:336: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGCA	34
(2) INFORMATION FOR SEQ ID NO:337: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:337: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GGC	33
(2) INFORMATION FOR SEQ ID NO:338: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:338: TGGAAAGCTG AGATGGAGGG CGGCATGGCG GG	32
(2) INFORMATION FOR SEQ ID NO:339: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:339: TGGAAAGCTG AGATGGAGGG CGGCATGGCG G	31
(2) INFORMATION FOR SEQ ID NO:340: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:340: TGGAAAGCTG AGATGGAGGG CGGCATGGCG	30
 (2) INFORMATION FOR SEQ ID NO:341: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	- •

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:341: TGGAAAGCTG AGATGGAGGG CGGCATGGC	29
(2) INFORMATION FOR SEQ ID NO:342: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:342: TGGAAAGCTG AGATGGAGGG CGGCATGG	28
(2) INFORMATION FOR SEQ ID NO:343: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:343: TGGAAAGCTG AGATGGAGGG CGGCATG	27
(2) INFORMATION FOR SEQ ID NO:344: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:344: TGGAAAGCTG AGATGGAGGG CGGCAT	26
(2) INFORMATION FOR SEQ ID NO:345: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:345: TGGAAAGCTG AGATGGAGGG CGGCA	25
(2) INFORMATION FOR SEQ ID NO:346: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:346: TGGAAAGCTG AGATGGAGGG CGGC	24
(2) INFORMATION FOR SEQ ID NO:347: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:347: TGGAAAGCTG AGATGGAGGG CGG	23
(2) INFORMATION FOR SEQ ID NO:348: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:348: TGGAAAGCTG AGATGGAGGG CG	22

(2) INFORMATION FOR SEQ ID NO:349:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:349: TGGAAAGCTG AGATGGAGGG C	21
(2) INFORMATION FOR SEQ ID NO:350: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:350: TGGAAAGCTG AGATGGAGGG	20
(2) INFORMATION FOR SEQ ID NO:351: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:351: TGGAAAGCTG AGATGGAGG	19
(2) INFORMATION FOR SEQ ID NO:352: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:352: TGGAAAGCTG AGATGGAG	18
(2) INFORMATION FOR SEQ ID NO:353: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:353: TGGAAAGCTG AGATGGA	17
(2) INFORMATION FOR SEQ ID NO:354: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:354: TGGAAAGCTG AGATGG	16
(2) INFORMATION FOR SEQ ID NO:355: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:355: TGGAAAGCTG AGATG	15
 (2) INFORMATION FOR SEQ ID NO:356: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:356: TGGAAAGCTG AGAT	14
(2) INFORMATION FOR SEQ ID NO:357: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:357: TGGAAAGCTG AGA	13
(2) INFORMATION FOR SEQ ID NO:358: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:358: TGGAAAGCTG AG	12
 (2) INFORMATION FOR SEQ ID NO:359: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:359: TGGAAAGCTG A 	11
(2) INFORMATION FOR SEQ ID NO:360: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:360: TGGAAAGCTG	10
(2) INFORMATION FOR SEQ ID NO:361: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:361: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCACAGGCTG GGC	43
(2) INFORMATION FOR SEQ ID NO:362: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:362: GGAAAGCTGA GATGGAGGCC GGCATGGCGG GCACAGGCTG GG	42
(2) INFORMATION FOR SEQ ID NO:363: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:363: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCACAGGCTG G	41
(2) INFORMATION FOR SEQ ID NO:364:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:364: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCACAGGCTG	40
(2) INFORMATION FOR SEQ ID NO:365: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:365: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCACAGGCT	39
(2) INFORMATION FOR SEQ ID NO:366: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:366: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCACAGGC	38
(2) INFORMATION FOR SEQ ID NO:367: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:367: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCACAGG	
(2) INFORMATION FOR SEQ ID NO:368: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:368: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCACAG	37
(2) INFORMATION FOR SEQ ID NO:369: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:369: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCACA	36 35
(2) INFORMATION FOR SEQ ID NO:370: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:370: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCAC	34
 (2) INFORMATION FOR SEQ ID NO:371: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:371: 	0.1

GGAAAGCTGA GATGGAGGGC GGCATGGCGG GCA	33
(2) INFORMATION FOR SEQ ID NO:372: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:372: GGAAAGCTGA GATGGAGGGC GGCATGGCGG GC	32
(2) INFORMATION FOR SEQ ID NO:373: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:373: GGAAAGCTGA GATGGAGGGC GGCATGGCGG G	31
(2) INFORMATION FOR SEQ ID NO:374: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:374: GGAAAGCTGA GATGGAGGGC GGCATGGCGG	30
(2) INFORMATION FOR SEQ ID NO:375: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:375: GGAAAGCTGA GATGGAGGGC GGCATGGCG	29
(2) INFORMATION FOR SEQ ID NO:376: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:376: GGAAAGCTGA GATGGAGGC GGCATGGC (2) INFORMATION FOR SEQ ID NO:377:	28
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:377: GGAAAGCTGA GATGGAGGGC GGCATGG	27
(2) INFORMATION FOR SEQ ID NO:378: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:378: GGAAAGCTGA GATGGAGGGC GGCATG (2) INFORMATION FOR SEQ ID NO:379: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs	26

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:379: GGAAAGCTGA GATGGAGGGC GGCAT	25
(2) INFORMATION FOR SEQ ID NO:380: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:380: GGAAAGCTGA GATGGAGGGC GGCA	24
(2) INFORMATION FOR SEQ ID NO:381: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:381: GGAAAGCTGA GATGGAGGGC GGC	23
(2) INFORMATION FOR SEQ ID NO:382: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:382: GGAAAGCTGA GATGGAGGGC GG	22
(2) INFORMATION FOR SEQ ID NO:383: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:383: GGAAAGCTGA GATGGAGGGC G	21
(2) INFORMATION FOR SEQ ID NO:384: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:384: GGAAAGCTGA GATGGAGGGC	20
(2) INFORMATION FOR SEQ ID NO:385: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:385: GGAAAGCTGA GATGGAGGG	
(2) INFORMATION FOR SEQ ID NO:386: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:386:	19
GGAAAGCTGA GATGGAGG	18

(2) INFORMATION FOR SEQ ID NO:387: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:387: GGAAAGCTGA GATGGAG	17
(2) INFORMATION FOR SEQ ID NO:388: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:388: GGAAAGCTGA GATGGA	16
(2) INFORMATION FOR SEQ ID NO:389: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:389: GGAAAGCTGA GATGG	15
(2) INFORMATION FOR SEQ ID NO:390: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:390: GGAAAGCTGA GATG	14
(2) INFORMATION FOR SEQ ID NO:391: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:391: GGAAAGCTGA GAT	13
(2) INFORMATION FOR SEQ ID NO:392: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:392: GGAAAGCTGA GA	12
(2) INFORMATION FOR SEQ ID NO:393: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:393: GGAAAGCTGA G	
 (2) INFORMATION FOR SEQ ID NO:394: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid 	11

<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:394: GGAAAGCTGA</pre>	
(2) INFORMATION FOR SEO ID NO:395:	10
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:395: GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CACAGGCTGG GC	42
 (2) INFORMATION FOR SEQ ID NO:396: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:396: GAAAGCTGAG ATGGAGGCG GCATGGCGGG CACAGGCTGG G	41
 (2) INFORMATION FOR SEQ ID NO:397: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:397: GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CACAGGCTGG	40
(2) INFORMATION FOR SEQ ID NO:398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:398: GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CACAGGCTG	39
 (2) INFORMATION FOR SEQ ID NO:399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:399: 	
GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CACAGGCT (2) INFORMATION FOR SEQ ID NO:400: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:400:	38
GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CACAGGC (2) INFORMATION FOR SEQ ID NO:401:	37
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:401: 	
GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CACAGG	36

(2) INFORMATION FOR SEQ ID NO:402: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:402: GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CACAG	35
(2) INFORMATION FOR SEQ ID NO:403: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:403: GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CACA	34
(2) INFORMATION FOR SEQ ID NO:404: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:404: GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CAC	33
(2) INFORMATION FOR SEQ ID NO:405: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:405: GAAAGCTGAG ATGGAGGGCG GCATGGCGGG CA	32
(2) INFORMATION FOR SEQ ID NO:406: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:406: GAAAGCTGAG ATGGAGGGCG GCATGGCGGG C	31
(2) INFORMATION FOR SEQ ID NO:407: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:407: GAAAGCTGAG ATGGAGGGCG GCATGGCGGG	30
(2) INFORMATION FOR SEQ ID NO:408: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:408: GAAAGCTGAG ATGGAGGGCG GCATGGCGG	29
 (2) INFORMATION FOR SEQ ID NO:409: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:409: GAAAGCTGAG ATGGAGGGCG GCATGGCG	28
(2) INFORMATION FOR SEQ ID NO:410: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:410: GAAAGCTGAG ATGGAGGGCG GCATGGC	27
(2) INFORMATION FOR SEQ ID NO:411: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:411: GAAAGCTGAG ATGGAGGGCG GCATGG	26
(2) INFORMATION FOR SEQ ID NO:412: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:412: GAAAGCTGAG ATGGAGGGCG GCATG	25
 (2) INFORMATION FOR SEQ ID NO:413: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:413: 	
GAAAGCTGAG ATGGAGGGCG GCAT (2) INFORMATION FOR SEQ ID NO:414: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	24
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:414: GAAAGCTGAG ATGGAGGGCG GCA (2) INFORMATION FOR SEQ ID NO:415: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs	23
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:415: GAAAGCTGAG ATGGAGGGCG GC	22
(2) INFORMATION FOR SEQ ID NO:416: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:416:	21
GAAAGCTGAG ATGGAGGGCG G	21

(2) INFORMATION FOR SEQ ID NO:417:

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:417: GAAAGCTGAG ATGGAGGGCG 	20
(2) INFORMATION FOR SEQ ID NO:418: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:418: GAAAGCTGAG ATGGAGGGC	19
(2) INFORMATION FOR SEQ ID NO:419: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:419: GAAAGCTGAG ATGGAGGG	18
(2) INFORMATION FOR SEQ ID NO:420: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:420: GAAAGCTGAG ATGGAGG	
 (2) INFORMATION FOR SEQ ID NO:421: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:421: 	17
GAAAGCTGAG ATGGAG (2) INFORMATION FOR SEQ ID NO:422: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:422:	16
GAAAGCTGAG ATGGA (2) INFORMATION FOR SEQ ID NO:423: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:423:	15
(2) INFORMATION FOR SEQ ID NO:424: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	14

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:424: GAAAGCTGAG ATG	13
(2) INFORMATION FOR SEQ ID NO:425: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:425: GAAAGCTGAG AT	12
(2) INFORMATION FOR SEQ ID NO:426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:426: GAAAGCTGAG A	
 (2) INFORMATION FOR SEQ ID NO:427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:427: 	
(2) INFORMATION FOR SEQ ID NO:428: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	10
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:428: AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCTGGG C (2) INFORMATION FOR SEQ ID NO:429: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs	41
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:429: AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCTGGG (2) INFORMATION FOR SEQ ID NO:430: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid	40
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:430: AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCTGG (2) INFORMATION FOR SEQ ID NO:431: (i) SEQUENCE CHARACTERISTICS:	39
(A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:431: AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCTG (2) INFORMATION FOR SEQ ID NO:432: (i) SEQUENCE CHARACTERISTICS:	38

(A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:432: AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGGCT	37
 (2) INFORMATION FOR SEQ ID NO:433: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	O,
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:433: AAAGCTGAGA TGGAGGGGGG CATGGCGGGC ACAGGC	36
 (2) INFORMATION FOR SEQ ID NO:434: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:434: 	
AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAGG	35
 (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: AAAGCTGAGA TGGAGGGCGG CATGGCGGGC ACAG	34
(2) INFORMATION FOR SEQ ID NO:436: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:436: AAAGCTGAGA TGGAGGGGGG CATGGCGGGC ACA	33
(2) INFORMATION FOR SEQ ID NO:437: (i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:437: AAAGCTGAGA TGGAGGGCGG CATGGCGGGC AC	32
(2) INFORMATION FOR SEQ ID NO:438:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 31 base pairs(B) TYPE: nucleic acid	32
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (vi) SECUENCE PROPERTY CONTROL OF THE PROPERTY CONTROL O	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:438: AAAGCTGAGA TGGAGGGGGG CATGGCGGGC A	31
 (2) INFORMATION FOR SEQ ID NO:439: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:430: 	
IALL BECORNER DESCRIPTIONS SEC ID MO. 120.	

AAAGCTGAGA TGGAGGGCGG CATGGCGGGC	30
(2) INFORMATION FOR SEQ ID NO:440: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:440: AAAGCTGAGA TGGAGGGCGG CATGGCGGG	29
(2) INFORMATION FOR SEQ ID NO:441: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:441: AAAGCTGAGA TGGAGGGCGG CATGGCGG	28
(2) INFORMATION FOR SEQ ID NO:442: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:442: AAAGCTGAGA TGGAGGGCGG CATGGCG	27
(2) INFORMATION FOR SEQ ID NO:443: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:443: AAAGCTGAGA TGGAGGGCGG CATGGC	26
(2) INFORMATION FOR SEQ ID NO:444: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:444: AAAGCTGAGA TGGAGGGCGG CATGG	25
(2) INFORMATION FOR SEQ ID NO:445: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:445: AAAGCTGAGA TGGAGGGCGG CATG	24
(2) INFORMATION FOR SEQ ID NO:446: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:446: AAAGCTGAGA TGGAGGGCGG CAT (2) INFORMATION FOR SEQ ID NO:447: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs	23

j

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:447: AAAGCTGAGA TGGAGGGCGG CA	22
(2) INFORMATION FOR SEQ ID NO:448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:448: AAAGCTGAGA TGGAGGGCGG C	21
(2) INFORMATION FOR SEQ ID NO:449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:449:	
(2) INFORMATION FOR SEQ ID NO:450: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	20
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:450: AAAGCTGAGA TGGAGGGCG (2) INFORMATION FOR SEQ ID NO:451: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	19
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:451: AAAGCTGAGA TGGAGGGC (2) INFORMATION FOR SEQ ID NO:452: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs	18
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:452: AAAGCTGAGA TGGAGGG (2) INFORMATION FOR SEQ ID NO:453: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs	17
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:453: AAAGCTGAGA TGGAGG (2) INFORMATION FOR SEQ ID NO:454:	16
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:454: AAAGCTGAGA TGGAG	15

(2) INFORMATION FOR SEQ ID NO:455: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:455:	
AAAGCTGAGA TGGA (2) INFORMATION FOR SEQ ID NO:456: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs	14
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:456: AAAGCTGAGA TGG	
 (2) INFORMATION FOR SEQ ID NO:457: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	13
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:457: AAAGCTGAGA TG	12
(2) INFORMATION FOR SEQ ID NO:458: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:458: AAAGCTGAGA T	11
(2) INFORMATION FOR SEQ ID NO:459: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:459: AAAGCTGAGA	10
(2) INFORMATION FOR SEQ ID NO:460: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:460: AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCTGGGC	
(2) INFORMATION FOR SEQ ID NO:461: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:461: AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCTGGG	4 0
(2) INFORMATION FOR SEQ ID NO:462:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 38 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:462: AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCTGG (2) INFORMATION FOR SEQ ID NO:463:	38
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:463: AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCTG	37
(2) INFORMATION FOR SEQ ID NO:464: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:464: AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGCT	36
(2) INFORMATION FOR SEQ ID NO:465: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:465: AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGGC	
(2) INFORMATION FOR SEQ ID NO:466: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:466:	35
AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAGG (2) INFORMATION FOR SEQ ID NO:467: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	34
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:467: AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CAG (2) INFORMATION FOR SEQ ID NO:468: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	33
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:468: AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA CA (2) INFORMATION FOR SEQ ID NO:469: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	32
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:469: AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA C	31

(2) INFORMATION FOR SEQ ID NO: 470:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 30 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:470:	
AAGCTGAGAT GGAGGGCGGC ATGGCGGGCA	2.0
and the state of t	30
(2) INFORMATION FOR SEQ ID NO:471:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 29 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:471: AAGCTGAGAT GGAGGGCGGC ATGGCGGGC	
-13010/10/11 COMOCOCOC AIGOCOGOC	29
(2) INFORMATION FOR SEQ ID NO:472:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 28 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:472: AAGCTGAGAT GGAGGGCGGC ATGGCGGG	
	28
(2) INFORMATION FOR SEQ ID NO:473:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 27 base pairs	
(B) TYPE: nucleic acid	
<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:473:	
AAGCTGAGAT GGAGGGCGGC ATGGCGG	0.7
1100000	27
(2) INFORMATION FOR SEQ ID NO: 474:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 26 base pairs	
(B) TYPE: nucleic acid	
<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:474:	
AAGCTGAGAT GGAGGGCGC ATGGCG	26
	20
(2) INFORMATION FOR SEQ ID NO: 475:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 25 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:475:	
AAGCTGAGAT GGAGGGCGGC ATGGC	25
	23
(2) INFORMATION FOR SEQ ID NO:476:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEO ID NO: 476:	
AAGCTGAGAT GGAGGGCGGC ATGG	24
(2) INFORMATION TO THE	-
(2) INFORMATION FOR SEQ ID NO:477:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 23 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDFONESS cincle	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:477: AAGCTGAGAT GGAGGGCGGC ATG	23
(2) INFORMATION FOR SEQ ID NO:478: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:478: AAGCTGAGAT GGAGGGCGGC AT	22
(2) INFORMATION FOR SEQ ID NO:479: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:479: AAGCTGAGAT GGAGGGCGGC A	21
(2) INFORMATION FOR SEQ ID NO:480: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:480: AAGCTGAGAT GGAGGGCGGC	20
(2) INFORMATION FOR SEQ ID NO:481: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:481: AAGCTGAGAT GGAGGGCGG	19
(2) INFORMATION FOR SEQ ID NO:482: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:482: AAGCTGAGAT GGAGGGCG	18
(2) INFORMATION FOR SEQ ID NO:483: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:483: AAGCTGAGAT GGAGGGC	17
(2) INFORMATION FOR SEQ ID NO:484: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:484: AAGCTGAGAT GGAGGG	
(2) INFORMATION FOR SEQ ID NO:485:	16

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:485: AAGCTGAGAT GGAGG	15
(2) INFORMATION FOR SEQ ID NO:486: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:486: AAGCTGAGAT GGAG	14
(2) INFORMATION FOR SEQ ID NO:487: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:487: AAGCTGAGAT GGA	13
(2) INFORMATION FOR SEQ ID NO:488: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:488: AAGCTGAGAT GG	12
(2) INFORMATION FOR SEQ ID NO:489: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:489: AAGCTGAGAT G	11
(2) INFORMATION FOR SEQ ID NO:490: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:490: AAGCTGAGAT	10
(2) INFORMATION FOR SEQ ID NO:491: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:491: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTGGGC	39
 (2) INFORMATION FOR SEQ ID NO:492: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:492: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTGGG	38
(2) INFORMATION FOR SEQ ID NO:493: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:493: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTGG	37
(2) INFORMATION FOR SEQ ID NO:494: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:494: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCTG	36
(2) INFORMATION FOR SEQ ID NO:495: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:495: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGCT	35
(2) INFORMATION FOR SEQ ID NO:496: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:496: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGGC	34
(2) INFORMATION FOR SEQ ID NO:497: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:497: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AGG	33
(2) INFORMATION FOR SEQ ID NO:498: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:498: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC AG	32
(2) INFORMATION FOR SEQ ID NO:499: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:499: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC A	
(2) INFORMATION FOR SEQ ID NO:500: (i) SEQUENCE CHARACTERISTICS:	31

(A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:500: AGCTGAGATG GAGGGCGGCA TGGCGGGCAC	30
(2) INFORMATION FOR SEQ ID NO:501: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:501: AGCTGAGATG GAGGGCGGCA TGGCGGGCA	29
(2) INFORMATION FOR SEQ ID NO:502: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:502: AGCTGAGATG GAGGGCGGCA TGGCGGGC	28
(2) INFORMATION FOR SEQ ID NO:503: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:503: AGCTGAGATG GAGGGCGGCA TGGCGGG	27
(2) INFORMATION FOR SEQ ID NO:504: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:504: AGCTGAGATG GAGGGCGGCA TGGCGG	26
(2) INFORMATION FOR SEQ ID NO:505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:505: AGCTGAGATG GAGGGCGGCA TGGCG	25
(2) INFORMATION FOR SEQ ID NO:506: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:506: AGCTGAGATG GAGGGCGGCA TGGC	24
 (2) INFORMATION FOR SEQ ID NO:507: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:507: 	

AGCTGAGATG GAGGGCGGCA TGG	23
(2) INFORMATION FOR SEQ ID NO:508: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:508: AGCTGAGATG GAGGGCGGCA TG	22
(2) INFORMATION FOR SEQ ID NO:509: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:509: AGCTGAGATG GAGGGCGGCA T	21
(2) INFORMATION FOR SEQ ID NO:510: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:510: AGCTGAGATG GAGGGCGGCA	20
(2) INFORMATION FOR SEQ ID NO:511: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:511: AGCTGAGATG GAGGGCGGC	19
(2) INFORMATION FOR SEQ ID NO:512: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:512: AGCTGAGATG GAGGGCGG	18
(2) INFORMATION FOR SEQ ID NO:513: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:513: AGCTGAGATG GAGGGCG	17
(2) INFORMATION FOR SEQ ID NO:514: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:514: AGCTGAGATG GAGGGC	16
(2) INFORMATION FOR SEQ ID NO:515:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 15 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:515: AGCTGAGATG GAGGG	15
(2) INFORMATION FOR SEQ ID NO:516: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:516: AGCTGAGATG GAGG	14
(2) INFORMATION FOR SEQ ID NO:517: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:517: AGCTGAGATG GAG	13
(2) INFORMATION FOR SEQ ID NO:518: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:518: AGCTGAGATG GA	12
(2) INFORMATION FOR SEQ ID NO:519: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:519: AGCTGAGATG G	11
(2) INFORMATION FOR SEQ ID NO:520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:520: AGCTGAGATG	10
<pre>(2) INFORMATION FOR SEQ ID NO:521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:521:</pre>	10
GCTGAGATGG AGGGCGCAT GGCGGGCACA GGCTGGGC (2) INFORMATION FOR SEQ ID NO:522: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	38
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:522: GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGCTGGG	37

(2) INFORMATION FOR SEQ ID NO:523: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:523: GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGCTGG	36
(2) INFORMATION FOR SEQ ID NO:524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:524: GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGCTG	35
(2) INFORMATION FOR SEQ ID NO:525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:525: GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGCT	34
(2) INFORMATION FOR SEQ ID NO:526: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:526: GCTGAGATGG AGGGCGGCAT GGCGGGCACA GGC	33
(2) INFORMATION FOR SEQ ID NO:527: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:527: GCTGAGATGG AGGGCGGCAT GGCGGGCACA GG	32
(2) INFORMATION FOR SEQ ID NO:528: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:528: GCTGAGATGG AGGGCGGCAT GGCGGGCACA G	31
(2) INFORMATION FOR SEQ ID NO:529: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:529: GCTGAGATGG AGGGCGGCAT GGCGGGCACA	30
(2) INFORMATION FOR SEQ ID NO:530:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 29 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:530: GCTGAGATGG AGGGCGGCAT GGCGGGCAC	29
(2) INFORMATION FOR SEQ ID NO:531: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:531: GCTGAGATGG AGGGCGGCAT GGCGGGCA	28
(2) INFORMATION FOR SEQ ID NO:532: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:532: GCTGAGATGG AGGGCGGCAT GGCGGGC	27
(2) INFORMATION FOR SEQ ID NO:533: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:533: GCTGAGATGG AGGGCGGCAT GGCGGG	26
(2) INFORMATION FOR SEQ ID NO:534: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:534: GCTGAGATGG AGGGCGGCAT GGCGG	25
(2) INFORMATION FOR SEQ ID NO:535: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:535: GCTGAGATGG AGGGCGGCAT GGCG	24
 (2) INFORMATION FOR SEQ ID NO:536: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:536: GCTGAGATGG AGGGCGGCAT GGC 	23
 (2) INFORMATION FOR SEQ ID NO:537: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:537: GCTGAGATGG AGGGCGGCAT GG 	22

(2) INFORMATION FOR SEQ ID NO:538: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:538: GCTGAGATGG AGGGCGGCAT G	21
(2) INFORMATION FOR SEQ ID NO:539: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:539: GCTGAGATGG AGGGCGGCAT	20
(2) INFORMATION FOR SEQ ID NO:540: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:540: GCTGAGATGG AGGGCGGCA	19
(2) INFORMATION FOR SEQ ID NO:541: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:541: GCTGAGATGG AGGGCGGC	18
 (2) INFORMATION FOR SEQ ID NO:542: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:542: GCTGAGATGG AGGGCGG 	17
(2) INFORMATION FOR SEQ ID NO:543: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:543: GCTGAGATGG AGGGCG	16
(2) INFORMATION FOR SEQ ID NO:544: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:544: GCTGAGATGG AGGGC	15
 (2) INFORMATION FOR SEQ ID NO:545: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:545: GCTGAGATGG AGGG	14
(2) INFORMATION FOR SEQ ID NO:546: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:546: GCTGAGATGG AGG	13
(2) INFORMATION FOR SEQ ID NO:547: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:547: GCTGAGATGG AG	12
(2) INFORMATION FOR SEQ ID NO:548: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:548: GCTGAGATGG A	11
 (2) INFORMATION FOR SEQ ID NO:549: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:549: 	11
GCTGAGATGG (2) INFORMATION FOR SEQ ID NO:550: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	10
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:550: CTGAGATGA GGGCGCATG GCGGGCACAG GCTGGGC (2) INFORMATION FOR SEQ ID NO:551: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	37
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:551: CTGAGATGGA GGGCGGCATG GCGGGCACAG GCTGGG (2) INFORMATION FOR SEQ ID NO:552:	36
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:552: CTGAGATGGA GGGCGCATG GCGGGCACAG GCTGG	35

(2) INFORMATION FOR SEQ ID NO:553:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:553: CTGAGATGGA GGGCGGCATG GCGGGCACAG GCTG	34
(2) INFORMATION FOR SEQ ID NO:554: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:554: CTGAGATGGA GGGCGGCATG GCGGGCACAG GCT	33
(2) INFORMATION FOR SEQ ID NO:555: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:555: CTGAGATGGA GGGCGCATG GCGGGCACAG GC	32
(2) INFORMATION FOR SEQ ID NO:556: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:556: CTGAGATGGA GGGCGGCATG GCGGGCACAG G	31
(2) INFORMATION FOR SEQ ID NO:557: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:557: CTGAGATGGA GGGCGCATG GCGGGCACAG	30
(2) INFORMATION FOR SEQ ID NO:558: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:558: CTGAGATGGA GGGCGGCATG GCGGGCACA	29
(2) INFORMATION FOR SEQ ID NO:559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:559: CTGAGATGGA GGGCGGCATG GCGGGCAC	28
 (2) INFORMATION FOR SEQ ID NO:560: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:560: CTGAGATGGA GGGCGGCATG GCGGGCA	27
(2) INFORMATION FOR SEQ ID NO:561: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:561: CTGAGATGGA GGGCGGCATG GCGGGC	26
(2) INFORMATION FOR SEQ ID NO:562: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:562: CTGAGATGGA GGGCGGCATG GCGGG	25
(2) INFORMATION FOR SEQ ID NO:563: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:563: CTGAGATGGA GGGCGGCATG GCGG	24
(2) INFORMATION FOR SEQ ID NO:564: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:564: CTGAGATGGA GGGCGGCATG GCG	23
(2) INFORMATION FOR SEQ ID NO:565: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:565: CTGAGATGGA GGGCGGCATG GC	22
(2) INFORMATION FOR SEQ ID NO:566: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:566: CTGAGATGGA GGGCGGCATG G	21
(2) INFORMATION FOR SEQ ID NO:567: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:567: CTGAGATGGA GGGCGGCATG	20
(2) INFORMATION FOR SEQ ID NO:568:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:568 CTGAGATGGA GGGCGGCAT	:
(2) INFORMATION FOR SEQ ID NO:569: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:569: CTGAGATGGA GGGCGGCA	18
(2) INFORMATION FOR SEQ ID NO:570: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:570: CTGAGATGGA GGGCGGC	17
(2) INFORMATION FOR SEQ ID NO:571: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:571: CTGAGATGGA GGGCGG	
(2) INFORMATION FOR SEQ ID NO:572: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:572: CTGAGATGGA GGGCG	16
 (2) INFORMATION FOR SEQ ID NO:573: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:573: 	15
CTGAGATGGA GGGC (2) INFORMATION FOR SEQ ID NO:574: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:574:	14
CTGAGATGGA GGG (2) INFORMATION FOR SEQ ID NO:575: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:575.	13

CTGAGATGGA GG	12
(2) INFORMATION FOR SEQ ID NO:576: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:576: CTGAGATGGA G	11
(2) INFORMATION FOR SEQ ID NO:577: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:577: CTGAGATGGA	10
(2) INFORMATION FOR SEQ ID NO:578: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:578: TGAGATGGAG GGCGCATGG CGGGCACAGG CTGGGC (2) INFORMATION FOR SEQ ID NO:579:	36
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:579: TGAGATGGAG GGCGCATGG CGGGCACAGG CTGGG (2) INFORMATION FOR SEQ ID NO:580: (i) SEQUENCE CHARACTERISTICS:	35
(A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:580: TGAGATGGAG GGCGCATGG CGGCCACAGG CTGG (2) INFORMATION FOR SEO ID NO:581:	34
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:581: TGAGATGGAG GGCGCATGG CGGGCACAGG CTG	33
(2) INFORMATION FOR SEQ ID NO:582: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:582: IGAGATGGAG GGCGGCATGG CGGGCACAGG CT (2) INFORMATION FOR SEQ ID NO:583: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs	32

(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:583:	
TGAGATGGAG GGCGGCATGG CGGGCACAGG C	2.1
	31
(2) INFORMATION FOR SEQ ID NO:584:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 30 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:584:	
TGAGATGGAG GGCGGCATGG CGGGCACAGG	20
	30
(2) INFORMATION FOR SEQ ID NO:585:	
(1) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 29 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEC ID NO.585.	
TGAGATGGAG GGCGGCATGG CGGGCACAG	29
(0) Turania	23
(2) INFORMATION FOR SEQ ID NO:586:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 28 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:586:	
TGAGATGGAG GGCGCATGG CGGGCACA	28
(2) INFORMATION FOR SEQ ID NO:587:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 27 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:587:	
TGAGATGGAG GGCGCATGG CGGCCAC	0.7
	27
(2) INFORMATION FOR SEQ ID NO:588:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 26 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEO ID NO 588	
TGAGATGGAG GGCGGCATGG CGGGCA	26
(0) THEORY TO	
(2) INFORMATION FOR SEQ ID NO:589:(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 25 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:589:	
TGAGATGGAG GGCGCATGG CGGGC	25
(2) INFORMATION FOR SEQ ID NO:590:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 24 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:590: TGAGATGGAG GGCGGCATGG CGGG	± ,
	24

(2) INFORMATION FOR SEQ ID NO:591: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:591: TGAGATGGAG GGCGGCATGG CGG	23
(2) INFORMATION FOR SEQ ID NO:592: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:592: TGAGATGGAG GGCGGCATGG CG	22
(2) INFORMATION FOR SEQ ID NO:593: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:593: TGAGATGGAG GGCGGCATGG C	21
(2) INFORMATION FOR SEQ ID NO:594: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:594: TGAGATGGAG GGCGGCATGG	20
(2) INFORMATION FOR SEQ ID NO:595: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:595: TGAGATGGAG GGCGGCATG	19
(2) INFORMATION FOR SEQ ID NO:596: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:596: TGAGATGGAG GGCGGCAT	18
(2) INFORMATION FOR SEQ ID NO:597: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:597: TGAGATGGAG GGCGGCA	17
(2) INFORMATION FOR SEQ ID NO:598:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 16 base pairs(B) TYPE: nucleic acid	•

<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:598: TGAGATGGAG GGCGGC</pre>	16
(2) INFORMATION FOR SEQ ID NO:599: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:599: TGAGATGGAG GGCGG	15
(2) INFORMATION FOR SEQ ID NO:600: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs	13
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:600: TGAGATGGAG GGCG	14
(2) INFORMATION FOR SEQ ID NO:601:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 13 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:601: TGAGATGGAG GGC	13
 (2) INFORMATION FOR SEQ ID NO:602: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:602: TGAGATGGAG GG 	12
(2) INFORMATION FOR SEQ ID NO:603: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:603: TGAGATGGAG G	11
 (2) INFORMATION FOR SEQ ID NO:604: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:604: TGAGATGGAG	10
 (2) INFORMATION FOR SEQ ID NO:605: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:605: GAGATGGAGG GCGCATGGC GGGCACAGGC TGGGC	35

(2) INFORMATION FOR SEQ ID NO:606: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:606: GAGATGGAGG GCGGCATGGC GGGCACAGGC TGGG	34
(2) INFORMATION FOR SEQ ID NO:607: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:607: GAGATGGAGG GCGCCATGGC GGGCACAGGC TGG	33
(2) INFORMATION FOR SEQ ID NO:608: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:608: GAGATGGAGG GCGGCATGGC GGGCACAGGC TG	32
(2) INFORMATION FOR SEQ ID NO:609: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:609: GAGATGGAGG GCGGCATGGC GGGCACAGGC T	31
(2) INFORMATION FOR SEQ ID NO:610: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:610: GAGATGGAGG GCGGCATGGC GGGCACAGGC	30
(2) INFORMATION FOR SEQ ID NO:611: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:611: GAGATGGAGG GCGGCATGGC GGGCACAGG	29
(2) INFORMATION FOR SEQ ID NO:612: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (**i) SEQUENCE DESCRIPTION: SEQ ID NO:612: GAGATGGAGG GCGGCATGGC GGGCACAG	
(2) INFORMATION FOR SEQ ID NO:613: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	28

<pre>(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:613:</pre>	
GAGATGGAGG GCGCATGGC GGGCACA	27
(2) INFORMATION FOR SEQ ID NO:614: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:614: GAGATGGAGG GCGGCATGGC GGGCAC	26
(2) INFORMATION FOR SEQ ID NO:615: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:615: GAGATGGAGG GCGCATGGC GGGCA	25
(2) INFORMATION FOR SEQ ID NO:616:	20
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:616: GAGATGGAGG GCGCCATGGC GGGC	24
(2) INFORMATION FOR SEQ ID NO:617: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:617: GAGATGGAGG GCGGCATGGC GGG	23
(2) INFORMATION FOR SEQ ID NO:618: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:618: GAGATGGAGG GCGGCATGGC GG	22
(2) INFORMATION FOR SEQ ID NO:619: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:619: GAGATGGAGG GCGGCATGGC G	21
(2) INFORMATION FOR SEQ ID NO:620: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	-*
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:620: GAGATGGAGG GCGGCATGGC	20

(2) INFORMATION FOR SEQ ID NO:621: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:621: GAGATGGAGG GCGGCATGG	19
(2) INFORMATION FOR SEQ ID NO:622: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:622: GAGATGGAGG GCGGCATG	18
(2) INFORMATION FOR SEQ ID NO:623: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:623: GAGATGGAGG GCGGCAT	17
(2) INFORMATION FOR SEQ ID NO:624: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:624: GAGATGGAGG GCGGCA	16
(2) INFORMATION FOR SEQ ID NO:625: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:625: GAGATGGAGG GCGC	15
(2) INFORMATION FOR SEQ ID NO:626: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:626: GAGATGGAGG GCGG	
 (2) INFORMATION FOR SEQ ID NO:627: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:627: 	14
GAGATGGAGG GCG (2) INFORMATION FOR SEQ ID NO:628: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	13

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:628: GAGATGGAGG GC	12
(2) INFORMATION FOR SEQ ID NO:629: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:629: GAGATGGAGG G	11
(2) INFORMATION FOR SEQ ID NO:630: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:630: GAGATGGAGG	10
 (2) INFORMATION FOR SEQ ID NO:631: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:631: 	10
AGATGGAGG CGGCATGGCG GGCACAGGCT GGGC (2) INFORMATION FOR SEQ ID NO:632: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	34
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:632: AGATGGAGGG CGGCATGGCG GGCACAGGCT GGG (2) INFORMATION FOR SEQ ID NO:633: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	33
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:633: AGATGGAGGG CGGCATGGCG GGCACAGGCT GG (2) INFORMATION FOR SEQ ID NO:634: (i) SEQUENCE CHARACTERISTICS:	32
(A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:634: AGATGGAGGG CGGCATGGCG GGCACAGGCT G	31
 (2) INFORMATION FOR SEQ ID NO:635: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:635: 	
AGATGGAGGG CGGCATGGCG GGCACAGGCT	30

(2) INFORMATION FOR SEQ ID NO:636:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:636: AGATGGAGGG CGGCATGGCG GGCACAGGC	29
(2) INFORMATION FOR SEQ ID NO:637: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:637: AGATGGAGGG CGGCATGGCG GGCACAGG	28
(2) INFORMATION FOR SEQ ID NO:638: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:638: AGATGGAGGG CGGCATGGCG GGCACAG	27
(2) INFORMATION FOR SEQ ID NO:639: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:639: AGATGGAGGG CGGCATGGCG GGCACA	. 26
(2) INFORMATION FOR SEQ ID NO:640: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:640: AGATGGAGGG CGGCATGGCG GGCAC	25
(2) INFORMATION FOR SEQ ID NO:641: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:641: AGATGGAGGG CGGCATGGCG GGCA	24
(2) INFORMATION FOR SEQ ID NO:642: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:642: AGATGGAGGG CGGCATGGCG GGC	23
 (2) INFORMATION FOR SEQ ID NO:643: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:643: AGATGGAGGG CGGCATGGCG GG	22
(2) INFORMATION FOR SEQ ID NO:644: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:644: AGATGGAGGG CGGCATGGCG G	21
(2) INFORMATION FOR SEQ ID NO:645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:645: AGATGGAGGG CGGCATGGCG	20
 (2) INFORMATION FOR SEQ ID NO:646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:646: 	
AGATGGAGGG CGGCATGGC (2) INFORMATION FOR SEQ ID NO:647: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:647:	19
AGATGGAGGG CGGCATGG (2) INFORMATION FOR SEQ ID NO:648: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	18
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:648: AGATGGAGGG CGGCATG (2) INFORMATION FOR SEQ ID NO:649: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	17
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:649: AGATGGAGGG CGGCAT (2) INFORMATION FOR SEQ ID NO:650: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:650:</pre>	16
(2) INFORMATION FOR SEQ ID NO:651: (i) SEQUENCE CHARACTERISTICS:	15

(A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:651: AGATGGAGGG CGGC	14
(2) INFORMATION FOR SEQ ID NO:652: (i) SÉQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:652: AGATGGAGGG CGG	13
(2) INFORMATION FOR SEQ ID NO:653: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:653: AGATGGAGGG CG	12
(2) INFORMATION FOR SEQ ID NO:654: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:654: AGATGGAGGG C	11
(2) INFORMATION FOR SEQ ID NO:655: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:655: AGATGGAGGG	10
(2) INFORMATION FOR SEQ ID NO:656: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:656: GATGGAGGGC GGCATGGCGG GCACAGGCTG GGC	10
(2) INFORMATION FOR SEQ ID NO:657: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:657: GATGGAGGGC GGCATGGCGG GCACAGGCTG GG	33
(2) INFORMATION FOR SEQ ID NO:658: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:658:	32

GATGGAGGGC GGCATGGCGG GCACAGGCTG G	31
(2) INFORMATION FOR SEQ ID NO:659: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:659: GATGGAGGGC GGCATGGCGG GCACAGGCTG	30
(2) INFORMATION FOR SEQ ID NO:660: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:660: GATGGAGGGC GGCATGGCGG GCACAGGCT	29
<pre>(2) INFORMATION FOR SEQ ID NO:661: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:661:</pre>	
GATGGAGGGC GGCATGGCGG GCACAGGC (2) INFORMATION FOR SEQ ID NO:662: (i) SEQUENCE CHARACTERISTICS:	28
(A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:662: GATGGAGGGC GGCATGGCGG GCACAGG	27
(2) INFORMATION FOR SEQ ID NO:663: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:663: GATGGAGGGC GGCATGGCGG GCACAG	26
 (2) INFORMATION FOR SEQ ID NO:664: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:664: GATGGAGGC GGCATGGCGG GCACA (2) INFORMATION FOR SEQ ID NO:665: (i) SEQUENCE CHARACTERISTICS:	25
(A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:665: GATGGAGGGC GGCATGGCGG GCAC (2) INFORMATION FOR SEQ ID NO:666:	24
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:666: GATGGAGGGC GGCATGGCGG GCA	23
(2) INFORMATION FOR SEQ ID NO:667: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:667: GATGGAGGGC GGCATGGCGG GC	22
(2) INFORMATION FOR SEQ ID NO:668: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:668: GATGGAGGGC GGCATGGCGG G	21
(2) INFORMATION FOR SEQ ID NO:669: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:669: GATGGAGGGC GGCATGGCGG	20
(2) INFORMATION FOR SEQ ID NO:670: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:670: GATGGAGGGC GGCATGGCG	19
(2) INFORMATION FOR SEQ ID NO:671: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:671: GATGGAGGGC GGCATGGC	18
(2) INFORMATION FOR SEQ ID NO:672: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:672: GATGGAGGGC GGCATGG	
 (2) INFORMATION FOR SEQ ID NO:673: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:673: 	17
GATGGAGGGC GGCATG	16

(2) INFORMATION FOR SEQ ID NO:674: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:674: GATGGAGGGC GGCAT	15
(2) INFORMATION FOR SEQ ID NO:675: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:675: GATGGAGGGC GGCA	14
(2) INFORMATION FOR SEQ ID NO:676: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:676: GATGGAGGGC GGC	13
(2) INFORMATION FOR SEQ ID NO:677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:677: GATGGAGGGC GG	12
(2) INFORMATION FOR SEQ ID NO:678: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:678: GATGGAGGGC G	11
(2) INFORMATION FOR SEQ ID NO:679: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:679: GATGGAGGGC	10
(2) INFORMATION FOR SEQ ID NO:680: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:680: ATGGAGGGCG GCATGGCGGG CACAGGCTGG GC	
(2) INFORMATION FOR SEQ ID NO:681: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid	32

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:681: ATGGAGGGCG GCATGGCGGG CACAGGCTGG G	31
(2) INFORMATION FOR SEQ ID NO:682: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:682: ATGGAGGGCG GCATGGCGGG CACAGGCTGG	30
(2) INFORMATION FOR SEQ ID NO:683: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:683:	
ATGGAGGCG GCATGGCGGG CACAGGCTG (2) INFORMATION FOR SEQ ID NO:684: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	29
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:684: ATGGAGGGCG GCATGGCGGG CACAGGCT (2) INFORMATION FOR SEQ ID NO:685:	28
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:685: ATGGAGGGCG GCATGGCGGG CACAGGC	27
 (2) INFORMATION FOR SEQ ID NO:686: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:686: 	
ATGGAGGCG GCATGCCGG CACAGG (2) INFORMATION FOR SEQ ID NO:687: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	26
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:687: ATGGAGGGCG GCATGGCGGG CACAG	25
 (2) INFORMATION FOR SEQ ID NO:688: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:688: 	
ATGGAGGGG GCATGGCGGG CACA	24

(2) INFORMATION FOR SEQ ID NO:689: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:689: ATGGAGGGCG GCATGGCGGG CAC	23
(2) INFORMATION FOR SEQ ID NO:690: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:690: ATGGAGGGCG GCATGGCGGG CA	22
(2) INFORMATION FOR SEQ ID NO:691: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:691: ATGGAGGGCG GCATGGCGGG C	21
(2) INFORMATION FOR SEQ ID NO:692: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:692: ATGGAGGGCG GCATGGCGGG	20
(2) INFORMATION FOR SEQ ID NO:693: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:693: ATGGAGGGCG GCATGGCGG	19
(2) INFORMATION FOR SEQ ID NO:694: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:694: ATGGAGGGCG GCATGGCG	18
(2) INFORMATION FOR SEQ ID NO:695: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:695: ATGGAGGGCG GCATGGC	17
 (2) INFORMATION FOR SEQ ID NO:696: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:696: ATGGAGGGCG GCATGG	16
(2) INFORMATION FOR SEQ ID NO:697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:697: ATGGAGGGCG GCATG	15
(2) INFORMATION FOR SEQ ID NO:698: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:698: ATGGAGGGCG GCAT	14
(2) INFORMATION FOR SEQ ID NO:699: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:699: ATGGAGGGCG GCA	13
(2) INFORMATION FOR SEQ ID NO:700: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:700: ATGGAGGGCG GC	12
(2) INFORMATION FOR SEQ ID NO:701: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:701: ATGGAGGGCG G	11
(2) INFORMATION FOR SEQ ID NO:702: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:702: ATGGAGGGCG	10
<pre>(2) INFORMATION FOR SEQ ID NO:703: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:703:</pre>	10
TGGAGGGCGG CATGGCGGC ACAGGCTGGG C (2) INFORMATION FOR SEQ ID NO:704:	31

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:704: TGGAGGGCGG CATGGCGGGC ACAGGCTGGG	30
(2) INFORMATION FOR SEQ ID NO:705: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:705: TGGAGGGCGG CATGGCGGGC ACAGGCTGG	29
(2) INFORMATION FOR SEQ ID NO:706: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:706: TGGAGGGCGG CATGGCGGGC ACAGGCTG	28
(2) INFORMATION FOR SEQ ID NO:707: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:707: TGGAGGGCGG CATGGCGGCC ACAGGCT	27
(2) INFORMATION FOR SEQ ID NO:708: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:708: TGGAGGGCGG CATGGCGGGC ACAGGC	26
(2) INFORMATION FOR SEQ ID NO:709: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:709: TGGAGGGCGG CATGGCGGGC ACAGG	25
(2) INFORMATION FOR SEQ ID NO:710: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:710: TGGAGGGCGG CATGGCGGGC ACAG	24
 (2) INFORMATION FOR SEQ ID NO:711: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:711: TGGAGGGCGG CATGGCGGGC ACA	23
(2) INFORMATION FOR SEQ ID NO:712: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:712: TGGAGGGCGG CATGGCGGGC AC	22
(2) INFORMATION FOR SEQ ID NO:713: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:713: TGGAGGGCGG CATGGCGGGC A	
(2) INFORMATION FOR SEQ ID NO:714: (i) SEQUENCE CHARACTERISTICS:	21
(A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:714: TGGAGGGCGG CATGGCGGGC	20
(2) INFORMATION FOR SEQ ID NO:715: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:715:	
TGGAGGGCGG CATGGCGGG (2) INFORMATION FOR SEQ ID NO:716: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid	19
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:716: TGGAGGGCGG CATGGCGG	18
(2) INFORMATION FOR SEQ ID NO:717: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:717: TGGAGGGCGG CATGGCG	17
(2) INFORMATION FOR SEQ ID NO:718: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:718:	<u>-</u> ·
TGGAGGGCGG CATGGC	16

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(2) INFORMATION FOR SEQ ID NO:719:(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:719: TGGAGGGCGG CATGG	15
(2) INFORMATION FOR SEQ ID NO:720: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:720: TGGAGGGCGG CATG	14
(2) INFORMATION FOR SEQ ID NO:721: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:721: TGGAGGGCGG CAT	13
(2) INFORMATION FOR SEQ ID NO:722: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:722: TGGAGGGCGG CA	12
(2) INFORMATION FOR SEQ ID NO:723: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:723: TGGAGGGCGG C	11
(2) INFORMATION FOR SEQ ID NO:724: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:724: TGGAGGGCGG	10
(2) INFORMATION FOR SEQ ID NO:725: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:725: GGAGGGCGGC ATGGCGGGCA CAGGCTGGGC	30
 (2) INFORMATION FOR SEQ ID NO:726: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:726: 	

GGAGGGCGGC ATGGCGGGCA CAGGCTGGG	29
(2) INFORMATION FOR SEQ ID NO:727: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:727: GGAGGGCGGC ATGGCGGCCA CAGGCTGG	28
(2) INFORMATION FOR SEQ ID NO:728: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:728: GGAGGGCGGC ATGGCGGGCA CAGGCTG	27
(2) INFORMATION FOR SEQ ID NO:729: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:729: GGAGGGCGGC ATGGCGGGCA CAGGCT	26
(2) INFORMATION FOR SEQ ID NO:730: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:730: GGAGGGCGGC ATGGCGGCCA CAGGC	25
(2) INFORMATION FOR SEQ ID NO:731: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:731: GGAGGGCGGC ATGGCGGGCA CAGG	24
(2) INFORMATION FOR SEQ ID NO:732: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:732: GGAGGGCGGC ATGGCGGGCA CAG	23
(2) INFORMATION FOR SEQ ID NO:733: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:733: GGAGGGCGGC ATGGCGGCA CA	
(2) INFORMATION FOR SEQ ID NO:734: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs	22

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:734: GGAGGGCGGC ATGGCGGCA C	21
(2) INFORMATION FOR SEQ ID NO:735: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:735: GGAGGGCGGC ATGGCGGGCA	20
(2) INFORMATION FOR SEQ ID NO:736: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:736: GGAGGGCGGC ATGGCGGGC	10
(2) INFORMATION FOR SEQ ID NO:737: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:737: GGAGGGCGGC ATGGCGGG	19
(2) INFORMATION FOR SEQ ID NO:738: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:738: GGAGGGCGGC ATGGCGG	17
(2) INFORMATION FOR SEQ ID NO:739: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:739: GGAGGGCGGC ATGGCG	16
(2) INFORMATION FOR SEQ ID NO:740: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:740: GGAGGGCGGC ATGGC	1 6
(2) INFORMATION FOR SEQ ID NO:741: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:741:	15
GGAGGGCGC AMCC	14

(2) INFORMATION FOR SEQ ID NO:742: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:742: GGAGGGCGGC ATG	13
(2) INFORMATION FOR SEQ ID NO:743: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:743: GGAGGGCGGC AT	12
(2) INFORMATION FOR SEQ ID NO:744: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:744: GGAGGGCGGC A	11
(2) INFORMATION FOR SEQ ID NO:745: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:745: GGAGGGCCGC	10
(2) INFORMATION FOR SEQ ID NO:746: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:746: GAGGGCGGCA TGGCGGGCAC AGGCTGGGC	29
(2) INFORMATION FOR SEQ ID NO:747: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:747: GAGGGCGGCA TGGCGGGCAC AGGCTGGG	28
(2) INFORMATION FOR SEQ ID NO:748: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:748: GAGGGCGGCA TGGCGGGCAC AGGCTGG	27
(2) INFORMATION FOR SEQ ID NO:749:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 26 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:749: GAGGGCGGCA TGGCGGGCAC AGGCTG	26
(2) INFORMATION FOR SEQ ID NO:750: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:750: GAGGGCGGCA TGGCGGGCAC AGGCT	25
(2) INFORMATION FOR SEQ ID NO:751: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:751: GAGGGCGGCA TGGCGGGCAC AGGC	24
(2) INFORMATION FOR SEQ ID NO:752: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:752: GAGGGCGGCA TGGCGGGCAC AGG	23
(2) INFORMATION FOR SEQ ID NO:753: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:753: GAGGGCGGCA TGGCGGGCAC AG	22
(2) INFORMATION FOR SEQ ID NO:754: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:754: GAGGGCCGCA TGGCGGGCAC A	21
(2) INFORMATION FOR SEQ ID NO:755: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:755: GAGGGCGGCA TGGCGGGCAC	20
(2) INFORMATION FOR SEQ ID NO:756: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:756:	
GAGGGCGGCA TGGCGGGCA	19

(2) INFORMATION FOR SEQ ID NO:757: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:757: GAGGGCGGCA TGGCGGGC	18
(2) INFORMATION FOR SEQ ID NO:758: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:758: GAGGGCGGCA TGGCGGG	17
(2) INFORMATION FOR SEQ ID NO:759: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:759: GAGGGCCGGCA TGGCGG	16
(2) INFORMATION FOR SEQ ID NO:760: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:760: GAGGGCGGCA TGGCG	15
(2) INFORMATION FOR SEQ ID NO:761: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:761: GAGGGCGGCA TGGC	14
(2) INFORMATION FOR SEQ ID NO:762: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:762: GAGGGCGGCA TGG	12
(2) INFORMATION FOR SEQ ID NO:763: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:763:	13
GAGGGCGGCA TG (2) INFORMATION FOR SEQ ID NO:764: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	12

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:764:	
GAGGGCGCA T (2) INFORMATION FOR SEQ ID NO:765: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs	11
(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear(xi) SEQUENCE DESCRIPTION: SEQ ID NO:765:	
GAGGGCGGCA	10
 (2) INFORMATION FOR SEQ ID NO:766: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:766: AGGGCGGCAT GGCGGGCACA GGCTGGGC	28
(2) INFORMATION FOR SEQ ID NO:767:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 27 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:767: AGGGCGGCAT GGCGGGCACA GGCTGGG	
ACCOCCOCAT GGCGGGCACA GGCTGGG	27
(2) INFORMATION FOR SEQ ID NO:768:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 26 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:768: AGGGCGGCAT GGCGGGCACA GGCTGG	26
(2) INFORMATION FOR SEQ ID NO:769:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 25 base pairs	20
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:769:	
AGGGCGGCAT GGCGGCACA GGCTG	25
(2) INFORMATION FOR SEQ ID NO:770:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid	
<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:770:</pre>	
AGGGCGGCAT GGCGGCACA GGCT	24
(2) INFORMATION FOR SEQ ID NO:771:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 23 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:771: AGGGCGGCAT GGCGGCACA GGC	23
(2) INFORMATION FOR SEQ ID NO:772:	

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:772: AGGGCGGCAT GGCGGCACA GG	22
(2) INFORMATION FOR SEQ ID NO:773: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:773: AGGGCGGCAT GGCGGGCACA G	21
(2) INFORMATION FOR SEQ ID NO:774: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:774: AGGGCGGCAT GGCGGGCACA	20
(2) INFORMATION FOR SEQ ID NO:775: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:775: AGGGCGGCAT GGCGGGCAC	19
(2) INFORMATION FOR SEQ ID NO:776: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:776: AGGGCGGCAT GGCGGGCA	18
(2) INFORMATION FOR SEQ ID NO:777: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:777: AGGGCGGCAT GGCGGGC	17
(2) INFORMATION FOR SEQ ID NO:778: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (*i) SEQUENCE DESCRIPTION: SEQ ID NO:778: AGGGCGGCAT GGCGGG	
(2) INFORMATION FOR SEQ ID NO:779: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	16

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:779: AGGGCGGCAT GGCGG	15
(2) INFORMATION FOR SEQ ID NO:780: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:780: AGGGCGGCAT GGCG	14
(2) INFORMATION FOR SEQ ID NO:781: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:781: AGGGCGGCAT GGC	13
(2) INFORMATION FOR SEQ ID NO:782: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:782:	
AGGGCGGCAT GG (2) INFORMATION FOR SEQ ID NO:783: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:783:	12
AGGGCGGCAT G (2) INFORMATION FOR SEQ ID NO:784: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	11
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:784: AGGGCGGCAT (2) INFORMATION FOR SEQ ID NO:785: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:785:	10
GGGCGGCATG GCGGGCACAG GCTGGGC (2) INFORMATION FOR SEQ ID NO:786: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:786:	27
GGGCGGCATG GCGGGCACAG GCTGGG (2) INFORMATION FOR SEQ ID NO:787: (i) SEQUENCE CHARACTERISTICS:	26

(A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:787: GGGCGGCATG GCGGGCACAG GCTGG	25
(2) INFORMATION FOR SEQ ID NO:788: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:788: GGGCGGCATG GCGGGCACAG GCTG	24
(2) INFORMATION FOR SEQ ID NO:789: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:789: GGGCGGCATG GCGGCACAG GCT	
 (2) INFORMATION FOR SEQ ID NO:790: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:790. 	23
(2) INFORMATION FOR SEQ ID NO:791: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	22 ·
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:791: GGGCGGCATG GCGGGCACAG G (2) INFORMATION FOR SEQ ID NO:792: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	21
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:792: GGGCGGCATG GCGGGCACAG (2) INFORMATION FOR SEQ ID NO:793: (i) SEQUENCE CHARACTERISTICS:	20
(A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:793: GGGCGGCATG GCGGGCACA	19
 (2) INFORMATION FOR SEQ ID NO:794: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:794: 	

GGGCGGCATG GCGGGCAC	18
(2) INFORMATION FOR SEQ ID NO:795: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:795: GGGCGGCATG GCGGGCA	17
(2) INFORMATION FOR SEQ ID NO:796: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:796: GGGCGGCATG GCGGC	16
(2) INFORMATION FOR SEQ ID NO:797: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:797: GGGCCGCATG GCGGG	15
(2) INFORMATION FOR SEQ ID NO:798: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:798: GGGCGGCATG GCGG	14
(2) INFORMATION FOR SEQ ID NO:799: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:799: GGGCGGCATG GCG	13
(2) INFORMATION FOR SEQ ID NO:800: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:800: GGGCGGCATG GC	12
(2) INFORMATION FOR SEQ ID NO:801: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:801: GGGCGGCATG G (2) INFORMATION FOR SEQ ID NO:802:	11
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:802: GGGCGGCATG	10
(2) INFORMATION FOR SEQ ID NO:803: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:803: GGCGGCATGG CGGGCACAGG CTGGGC	26
 (2) INFORMATION FOR SEQ ID NO:804: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:804: GGCGGCATGG CGGGCACAGG CTGGG	25
(2) INFORMATION FOR SEQ ID NO:805: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:805: GGCGGCATGG CGGGCACAGG CTGG	24
(2) INFORMATION FOR SEQ ID NO:806: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:806: GGCGGCATGG CGGGCACAGG CTG	23
(2) INFORMATION FOR SEQ ID NO:807: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:807: GGCGGCATGG CGGCACAGG CT	22
 (2) INFORMATION FOR SEQ ID NO:808: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:808: 	
GGCGGCATGG CGGCACAGG C (2) INFORMATION FOR SEQ ID NO:809: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	21
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:809: GGCGGCATGG CGGGCACAGG	20



 (2) INFORMATION FOR SEQ ID NO:810: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:810: GGCGGCATGG CGGGCACAG	19
 (2) INFORMATION FOR SEQ ID NO:811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:811: 	
GGCGGCATGG CGGGCACA	18
 (2) INFORMATION FOR SEQ ID NO:812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:812: 	
GGCGGCATGG CGGGCAC	17
(2) INFORMATION FOR SEQ ID NO:813: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:813: GGCGGCATGG CGGGCA	16
(2) INFORMATION FOR SEQ ID NO:814: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:814: GGCGGCATGG CGGC	15
 (2) INFORMATION FOR SEQ ID NO:815: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:815: 	
GGCGGCATGG CGGG	14
(2) INFORMATION FOR SEQ ID NO:816: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:816: GGCGGCATGG CGG	13
(2) INFORMATION FOR SEQ ID NO:817:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 12 base pairs(B) TYPE: nucleic acid	

(2) INFORMATION FOR SEQ ID NO:818: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:818: GGCGGCATGG C	11
(2) INFORMATION FOR SEQ ID NO:819: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:819: GGCGGCATGG	10
(2) INFORMATION FOR SEQ ID NO:820: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:820: GCGGCATGGC GGGCACAGGC TGGGC	25
(2) INFORMATION FOR SEQ ID NO:821: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:821: GCGGCATGGC GGGCACAGGC TGGG	24
(2) INFORMATION FOR SEQ ID NO:822: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:822: GCGGCATGGC GGGCACAGGC TGG	23
(2) INFORMATION FOR SEQ ID NO:823: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:823: GCGGCATGGC GGGCACAGGC TG 2	22
(2) INFORMATION FOR SEQ ID NO:824: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:824: GCGGCATGGC GGGCACAGGC T	

(2) INFORMATION FOR SEQ ID NO:825: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:825: GCGGCATGGC GGGCACAGGC	20
(2) INFORMATION FOR SEQ ID NO:826: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:826: GCGGCATGGC GGGCACAGG	19
(2) INFORMATION FOR SEQ ID NO:827: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:827: GCGGCATGGC GGGCACAG	18
(2) INFORMATION FOR SEQ ID NO:828: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:828: GCGGCATGGC GGGCACA	17
(2) INFORMATION FOR SEQ ID NO:829: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:829: GCGGCATGGC GGGCAC	16
(2) INFORMATION FOR SEQ ID NO:830: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:830: GCGGCATGGC GGGCA	15
(2) INFORMATION FOR SEQ ID NO:831: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:831:	13
(2) INFORMATION FOR SEQ ID NO:832: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	14

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:832: GCGGCATGGC GGG	13
(2) INFORMATION FOR SEQ ID NO:833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:833: GCGGCATGGC GG	12
(2) INFORMATION FOR SEQ ID NO:834: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:834: GCGGCATGGC G	11
(2) INFORMATION FOR SEQ ID NO:835: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:835: GCGGCATGGC	10
(2) INFORMATION FOR SEQ ID NO:836: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:836: CGGCATGGCG GGCACAGGCT GGGC	24
(2) INFORMATION FOR SEQ ID NO:837: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:837: CGGCATGGCG GGCACAGGCT GGG	23
(2) INFORMATION FOR SEQ ID NO:838: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:838: CGGCATGGCG GGCACAGGCT GG	22
(2) INFORMATION FOR SEQ ID NO:839: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:839:	
CGGCATGGCG GGCACAGGCT G (2) INFORMATION FOR SEQ ID NO:840:	21

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:840: CGGCATGGCG GGCACAGGCT	20
(2) INFORMATION FOR SEQ ID NO:841: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:841: CGGCATGGCG GGCACAGGC	19
(2) INFORMATION FOR SEQ ID NO:842: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:842: CGGCATGGCG GGCACAGG	18
(2) INFORMATION FOR SEQ ID NO:843: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:843: CGGCATGGCG GGCACAG	17
(2) INFORMATION FOR SEQ ID NO:844: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:844: CGGCATGGCG GGCACA	16
(2) INFORMATION FOR SEQ ID NO:845: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:845: CGGCATGGCG GGCAC	15
(2) INFORMATION FOR SEQ ID NO:846: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:846: CGGCATGGCG GGCA	14
 (2) INFORMATION FOR SEQ ID NO:847: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:847: CGGCATGGCG GGC	13
(2) INFORMATION FOR SEQ ID NO:848: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:848: CGGCATGGCG GG	12
(2) INFORMATION FOR SEQ ID NO:849: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:849: CGGCATGGCG G	11
(2) INFORMATION FOR SEQ ID NO:850: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:850:	
(2) INFORMATION FOR SEQ ID NO:851: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	10
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:851: GGCATGGCGG GCACAGGCTG GGC (2) INFORMATION FOR SEQ ID NO:852: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	23
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:852: GGCATGGCGG GCACAGGCTG GG (2) INFORMATION FOR SEQ ID NO:853: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:853:	22
(2) INFORMATION FOR SEQ ID NO:854: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:854.	21
GGCATGGCGG GCACAGGCTG (2) INFORMATION FOR SEQ ID NO:855: (i) SEQUENCE CHARACTERISTICS:	20

(A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:855: GGCATGGCGG GCACAGGCT	19
(2) INFORMATION FOR SEQ ID NO:856: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:856: GGCATGGCGG GCACAGGC	18
(2) INFORMATION FOR SEQ ID NO:857: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:857: GGCATGGCGG GCACAGG	17
(2) INFORMATION FOR SEQ ID NO:858: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:858: GGCATGGCGG GCACAG	16
(2) INFORMATION FOR SEQ ID NO:859: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:859: GGCATGGCGG GCACA	15
(2) INFORMATION FOR SEQ ID NO:860: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:860: GGCATGGCGG GCAC	14
(2) INFORMATION FOR SEQ ID NO:861: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:861: GGCATGGCGG GCA	13
 (2) INFORMATION FOR SEQ ID NO:862: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:862: 	

GGCATGGCGG GC	12
(2) INFORMATION FOR SEQ ID NO:863: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:863: GGCATGGCGG G	11
(2) INFORMATION FOR SEQ ID NO:864: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:864: GGCATGGCGG	10
(2) INFORMATION FOR SEQ ID NO:865: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:865: GCATGGCGGG CACAGGCTGG GC	22
(2) INFORMATION FOR SEQ ID NO:866: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:866: GCATGGCGGG CACAGGCTGG G	21
(2) INFORMATION FOR SEQ ID NO:867: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:867: GCATGGCGGG CACAGGCTGG	20
(2) INFORMATION FOR SEQ ID NO:868: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:868: GCATGGCGGG CACAGGCTG	19
(2) INFORMATION FOR SEQ ID NO:869: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:869: GCATGGCGGG CACAGGCT	18
(2) INFORMATION FOR SEQ ID NO:870:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:870: GCATGGCGGG CACAGGC	17
(2) INFORMATION FOR SEQ ID NO:871: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:871: GCATGGCGGG CACAGG	16
(2) INFORMATION FOR SEQ ID NO:872: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:872:	
GCATGGCGGG CACAG (2) INFORMATION FOR SEQ ID NO:873: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	15
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:873: GCATGGCGGG CACA (2) INFORMATION FOR SEQ ID NO:874:	14
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:874: GCATGGCGGG CAC	13
 (2) INFORMATION FOR SEQ ID NO:875: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:875: 	
(2) INFORMATION FOR SEQ ID NO:876: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:876: GCATGGCGGG C	11
(2) INFORMATION FOR SEQ ID NO:877: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:877: GCATGGCGGG	10

(2) INFORMATION FOR SEQ ID NO:878: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:878: CATGGCGGGC ACAGGCTGGG C	21
(2) INFORMATION FOR SEQ ID NO:879: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:879: CATGGCGGGC ACAGGCTGGG	20
(2) INFORMATION FOR SEQ ID NO:880: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:880: CATGGCGGGC ACAGGCTGG	19
(2) INFORMATION FOR SEQ ID NO:881: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:881: CATGGCGGGC ACAGGCTG	18
(2) INFORMATION FOR SEQ ID NO:882: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:882: CATGGCGGGC ACAGGCT	17
(2) INFORMATION FOR SEQ ID NO:883: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:883: CATGGCGGGC ACAGGC	16
(2) INFORMATION FOR SEQ ID NO:884: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:884: CATGGCGGGC ACAGG (2) INFORMATION FOR SEQ ID NO:885:	15
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:885: CATGGCGGGC ACAG	14
(2) INFORMATION FOR SEQ ID NO:886: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:886: CATGGCGGGC ACA	13
(2) INFORMATION FOR SEQ ID NO:887: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:887: CATGGCGGGC AC	12
(2) INFORMATION FOR SEQ ID NO:888: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:888: CATGGCGGGC A	11
(2) INFORMATION FOR SEQ ID NO:889: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:889: CATGGCGGGC	10
(2) INFORMATION FOR SEQ ID NO:890: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:890: ATGGCGGGCA CAGGCTGGGC	20
(2) INFORMATION FOR SEQ ID NO:891: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:891: ATGGCGGGCA CAGGCTGGG	19
(2) INFORMATION FOR SEQ ID NO:892: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:892:	
ATGGCGGGCA CAGGCTGG	18

(2) INFORMATION FOR SEQ ID NO:893: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:893: ATGGCGGGCCA CAGGCTG	17
(2) INFORMATION FOR SEQ ID NO:894: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:894: ATGGCGGGCA CAGGCT	16
(2) INFORMATION FOR SEQ ID NO:895: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:895: ATGGCGGGCA CAGGC	15
(2) INFORMATION FOR SEQ ID NO:896: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:896: ATGGCGGGCA CAGG	14
(2) INFORMATION FOR SEQ ID NO:897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:897: ATGGCGGGCA CAG	13
(2) INFORMATION FOR SEQ ID NO:898: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:898: ATGGCGGGCA CA	10
 (2) INFORMATION FOR SEQ ID NO:899: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:899: 	12
ATGGCGGGCA C (2) INFORMATION FOR SEQ ID NO:900: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	11

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:900: ATGGCGGCA	10
(2) INFORMATION FOR SEQ ID NO:901: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:901: TGGCGGGCAC AGGCTGGGC	19
(2) INFORMATION FOR SEQ ID NO:902: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:902: TGGCGGGCAC AGGCTGGG	18
(2) INFORMATION FOR SEQ ID NO:903: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:903: TGGCGGGCAC AGGCTGG	17
(2) INFORMATION FOR SEQ ID NO:904: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:904: TGGCGGGCAC AGGCTG	16
(2) INFORMATION FOR SEQ ID NO:905: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:905: TGGCGGGCAC AGGCT	15
(2) INFORMATION FOR SEQ ID NO:906: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:906: TGGCGGGCAC AGGC	14
(2) INFORMATION FOR SEQ ID NO:907: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:907:	
TGGCGGGCAC AGG (2) INFORMATION FOR SEQ ID NO:908:	13

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:908: TGGCGGGCAC AG	12
(2) INFORMATION FOR SEQ ID NO:909: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:909: TGGCGGGCAC A	11
(2) INFORMATION FOR SEQ ID NO:910: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:910: TGGCGGGCAC	10
(2) INFORMATION FOR SEQ ID NO:911: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:911: GGCGGGCACA GGCTGGGC	18
(2) INFORMATION FOR SEQ ID NO:912: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:912: GGCGGGCACA GGCTGGG	17
(2) INFORMATION FOR SEQ ID NO:913: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:913: GGCGGGCACA GGCTGG	16
(2) INFORMATION FOR SEQ ID NO:914: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:914: GGCGGGCACA GGCTG	15
 (2) INFORMATION FOR SEQ ID NO:915: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:915: GGCGGGCACA GGCT	14
(2) INFORMATION FOR SEQ ID NO:916: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:916: GGCGGGCACA GGC	13
(2) INFORMATION FOR SEQ ID NO:917: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:917: GGCGGGCACA GG	12
 (2) INFORMATION FOR SEQ ID NO:918: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:918: 	12
GGCGGGCACA G (2) INFORMATION FOR SEQ ID NO:919: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	11
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:919: GGCGGGCACA (2) INFORMATION FOR SEQ ID NO:920: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	10
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:920: GCGGGCACAG GCTGGGC (2) INFORMATION FOR SEQ ID NO:921: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:</pre>	
(2) INFORMATION FOR SEQ ID NO:922: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:	16
GCGGGCACAG GCTGG (2) INFORMATION FOR SEQ ID NO:923: (i) SEQUENCE CHARACTERISTICS:	15

(A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:923: GCGGGCACAG GCTG	14
(2) INFORMATION FOR SEQ ID NO:924: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:924: GCGGGCACAG GCT	13
(2) INFORMATION FOR SEQ ID NO:925: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:925: GCGGGCACAG GC	12
(2) INFORMATION FOR SEQ ID NO:926: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:926: GCGGGCACAG G	11
(2) INFORMATION FOR SEQ ID NO:927: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:	
GCGGGCACAG (2) INFORMATION FOR SEQ ID NO:928: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:	10
CGGGCACAGG CTGGGC (2) INFORMATION FOR SEQ ID NO:929: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:	16
GGGCACAGGC TGGG (2) INFORMATION FOR SEQ ID NO:930: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	14

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:930: CGGGCACAGG CTGG	14
(2) INFORMATION FOR SEQ ID NO:931: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:931: CGGGCACAGG CTG	13
(2) INFORMATION FOR SEQ ID NO:932: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:932: CGGGCACAGG CT	12
(2) INFORMATION FOR SEQ ID NO:933: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:933: CGGGCACAGG C	11
(2) INFORMATION FOR SEQ ID NO:934: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:934: CGGGCACAGG	10
(2) INFORMATION FOR SEQ ID NO:935: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:935: GGGCACAGGC TGGGC	15
(2) INFORMATION FOR SEQ ID NO:936: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:936: GGGCACAGGC TGGG	14
(2) INFORMATION FOR SEQ ID NO:937: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:937: GGGCACAGGC TGG	13
(2) INFORMATION FOR SEQ ID NO:938: (i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:938: GGGCACAGGC TG	12
(2) INFORMATION FOR SEQ ID NO:939: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:939: GGGCACAGGC T	11
(2) INFORMATION FOR SEQ ID NO:940: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:940: GGGCACAGGC	10
(2) INFORMATION FOR SEQ ID NO:941: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:941: GGCACAGGCT GGGC	14
(2) INFORMATION FOR SEQ ID NO:942: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:942: GGCACAGGCT GGG	13
(2) INFORMATION FOR SEQ ID NO:943: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:943: GGCACAGGCT GG	12
(2) INFORMATION FOR SEQ ID NO:944: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (**i) SEQUENCE DESCRIPTION: SEQ ID NO:944: GGCACAGGCT G	11
 (2) INFORMATION FOR SEQ ID NO:945: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:945: 	

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GGCACAGGCT	10
(2) INFORMATION FOR SEQ ID NO:946: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:946: GCACAGGCTG GGC	13
(2) INFORMATION FOR SEQ ID NO:947: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:947: GCACAGGCTG GG	12
(2) INFORMATION FOR SEQ ID NO:948: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:948: GCACAGGCTG G	11
(2) INFORMATION FOR SEQ ID NO:949: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:949: GCACAGGCTG	10
(2) INFORMATION FOR SEQ ID NO:950: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:950: CACAGGCTGG GC	12
(2) INFORMATION FOR SEQ ID NO:951: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:951: CACAGGCTGG G	11
(2) INFORMATION FOR SEQ ID NO:952: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:952: CACAGGCTGG	10
(2) INFORMATION FOR SEQ ID NO:953:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 11 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:953: ACAGGCTGGG C	11
(2) INFORMATION FOR SEQ ID NO:954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:	
ACAGGCTGGG (2) INFORMATION FOR SEQ ID NO:955: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	10
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:955: CAGGCTGGGC	10
(2) INFORMATION FOR SEQ ID NO:956: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:956: TTTTCCTTCC TTTGTCTCTC TTC	23
(2) INFORMATION FOR SEQ ID NO:957: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:957: GCTCCCGGCT GCCTG	15
(2) INFORMATION FOR SEQ ID NO:958: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:958: CTCGGCCGTG CGGCTCTGTC GCTCCCGGT	29
 (2) INFORMATION FOR SEQ ID NO:959: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:959. 	23
(2) INFORMATION FOR SEQ ID NO:960: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	20
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:960: GCTGCCGTT GGCTGCCC	18

(2) INFORMATION FOR SEQ ID NO:961: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:961: CTTCTGCGGG TCGCCGG	17
(2) INFORMATION FOR SEQ ID NO:962: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:962: TGCTGGGCTT GTGGC	15
(2) INFORMATION FOR SEQ ID NO:963: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:963: GGCCTCTCTT CTGGG	. 15
(2) INFORMATION FOR SEQ ID NO:964: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:964: CCTGGTCCCT CCGT	14
(2) INFORMATION FOR SEQ ID NO:965: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:965: GGTGGCTCCT CTGC	. 14
(2) INFORMATION FOR SEQ ID NO:966: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:966: GCTTGGTCCT GGGGCTGC	18
(2) INFORMATION FOR SEQ ID NO:967: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:	10
TGCTCTCCTC TCCTT (2) INFORMATION FOR SEQ ID NO:968: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid	15

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:968: TGCTTTTCTT TTCTGGGCCT C	21
(2) INFORMATION FOR SEQ ID NO:969: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:969: TGTGGTCTGT TTTTTCTG	19
(2) INFORMATION FOR SEQ ID NO:970: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:970: GCCCTGCTGG GGCGCTCTCC	20
(2) INFORMATION FOR SEQ ID NO:971: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:971: GCCGCCCGCC TGGCTCCC	18
(2) INFORMATION FOR SEQ ID NO:972: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:972: GGBGCCCBTG BTGGCCBTGC C	21
(2) INFORMATION FOR SEQ ID NO:973: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:973: GTGGTTCTTG CCCTCCTTTG GCTG	21
(2) INFORMATION FOR SEQ ID NO:974: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:974: CCGTGCCCGC TCCCCGGC	24
(2) INFORMATION FOR SEQ ID NO:975: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:	18
CTCCTGGCGG GTGGCCGTTG	20

(2) INFORMATION FOR SEQ ID NO:976: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:976: GGCCCGTGTT CCCCTGGG	18
(2) INFORMATION FOR SEQ ID NO:977: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:977: GCCTGGGGGCT CCCTTCTCTC	20
(2) INFORMATION FOR SEQ ID NO:978: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:978: GCCCTTCTTG CTGGGCCTC	19
(2) INFORMATION FOR SEQ ID NO:979: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:979: TGCTGCTGCT GGTGCTGTGG CCCCC	25
(2) INFORMATION FOR SEQ ID NO:980: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:980: GTACACCGAG GAGCCCATGA TGGGCATGCC ACAGACGACA GGC	43
(2) INFORMATION FOR SEQ ID NO:981: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:981: GTBCBCCGBG GBGCCCBTGB TGGGCBTGCC BCBGBCGBCB GGC	43
(2) INFORMATION FOR SEQ ID NO:982: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:982: GGCGCCGTGC CGCGTCTTGG TGGCGGCGG	29
(2) INFORMATION FOR SEQ ID NO:983:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 30 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:983: GTTCGCGCCC GCGCGGGCC CCTCCGGTCC	30
(2) INFORMATION FOR SEQ ID NO:984: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:984: GTTCGCGCCC GCGCGGGGCC CCTCCGGTCC	30
(2) INFORMATION FOR SEQ ID NO:985: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:985: CGGGTCGGGGG CCCCCCCGCGG CC	22
(2) INFORMATION FOR SEQ ID NO:986: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:986: GCCTCGGGGC TGGGGCGGTG GTGGCCGGG	29
(2) INFORMATION FOR SEQ ID NO:987: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:987: CCGCGCCTCC GCCTGCCGCT TCTG	24
(2) INFORMATION FOR SEQ ID NO:988: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:988: GCTGGGCCCC GGGCGCCCCC T	21
(2) INFORMATION FOR SEQ ID NO:989: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:	
(2) INFORMATION FOR SEQ ID NO:990: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	23
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:990: ACAGCGCGTC CTGTGTCTCC AGCAGCATGG CCGGGCCAGC TGGGCCCC	48

(2) INFORMATION FOR SEQ ID NO:991: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:991: BCBGCGCGTC CTGTGTCTCC BGCBGCBTGG CCGGGCCBGC TGGGCCCC	48
(2) INFORMATION FOR SEQ ID NO:992: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:992: ACAGAGCATG CTGTTGTTGG GCATCTTGCC TTCCCAGGG	39
(2) INFORMATION FOR SEQ ID NO:993: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:993: BCBGBGCBTG CTGTTGTTGG GCBTCTTGCC TTCCCBGGG	39
(2) INFORMATION FOR SEQ ID NO:994: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:994: CCCTTTTCTG GTGGGGTG	18
(2) INFORMATION FOR SEQ ID NO:995: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:995: GTGCTGTTGT TGGGC	15
(2) INFORMATION FOR SEQ ID NO:996: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:996: TTTCTTCTGT TCCC	14
(2) INFORMATION FOR SEQ ID NO:997: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:997: CCCTTTTCTG GTGGGTG (2) INFORMATION FOR SEQ ID NO:998: (i) SEQUENCE CHARACTERISTICS:	18

(A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:998: GTGCTGTTGT TGGGC	15
(2) INFORMATION FOR SEQ ID NO:999: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:999: TTTCTTCTGT TCCC	14
(2) INFORMATION FOR SEQ ID NO:1000: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000: TTTCCCCTGG GTCTTCC	
(2) INFORMATION FOR SEQ ID NO:1001: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001: CTCCTGCTCT TTTTC	16
(2) INFORMATION FOR SEQ ID NO:1002: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002: ATTTGCTCTC CTATTACTTT CTGTGTCCAT TTTTTCATTA ACCGAGCTGT	50
(2) INFORMATION FOR SEQ ID NO:1003: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003: BTTTGCTCTC CTBTTBCTTT CTGTGTCCBT TTTTTCBTTB BCCGBGCTGT	F0
(2) INFORMATION FOR SEQ ID NO:1004: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004: GCCTGTGTCT GTCCTCCT	18
 (2) INFORMATION FOR SEQ ID NO:1005: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005: GCTTCGTTCC TCTCGTTC	18
(2) INFORMATION FOR SEQ ID NO:1006: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006: CTGCTTGGTG CCCTTGCCG	19
(2) INFORMATION FOR SEQ ID NO:1007: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007: GTCCTGCTCC TCCGGGCTGT GG	22
(2) INFORMATION FOR SEQ ID NO:1008: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008: GTCGTGGCCC TGGCTCCGGC TGGTGGGCTC CCCTGG	36
(2) INFORMATION FOR SEQ ID NO:1009: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009: CCTTCGCTGG CTGGCGGCGT GC	22
(2) INFORMATION FOR SEQ ID NO:1010: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010: GGGTCTTGCT CTGGGCCTGG CTGT	24
(2) INFORMATION FOR SEQ ID NO:1011: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011: GGCCGTGGTT GGGGGTCTTC	20
(2) INFORMATION FOR SEQ ID NO:1012: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012: GCTGCCTCCG TTTGGGTGGC	20
(2) INFORMATION FOR SEQ ID NO:1013:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013: TCTCTGAATA TTGACCTTCC TCCATGGCGG TCCTGCTTGG ATTCTCCCGA	50
(2) INFORMATION FOR SEQ ID NO:1014: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014: TCTCTGBBTB TTGBCCTTCC TCCBTGGCGG TCCTGCTTGG BTTCTCCCGB	50
(2) INFORMATION FOR SEQ ID NO:1015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015: GCCTTTCCTG GTTCTCTTGT TGTTTTTGGG GTTTGGCTT	39
(2) INFORMATION FOR SEQ ID NO:1016: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016: ACAGTAGAGT AGGGGGATTCC ATGGCAGGAG CCATCTTCTT CATGGACTCC	50
(2) INFORMATION FOR SEQ ID NO:1017: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017: TTCAAGGAGA CCTTAGGTTT CTGAGGGACT GCTAACACGC CATCTGGAGC	50
(2) INFORMATION FOR SEQ ID NO:1018: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018: BCBGTBGBGT BGGGGBTTCC BTGGCBGGBG CCBTCTTCTT CBTGGBCTCC TTCBBGGBGB CCTTBGGTTT CTGBGGG	60 77
(2) INFORMATION FOR SEQ ID NO:1019: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019: BCTGCTBBCB CGCCBTCTGG BGC	23
(2) INFORMATION FOR SEQ ID NO:1020:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 21 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020: GTTGTTTTTG GGGTTTGGCT T	21
(2) INFORMATION FOR SEQ ID NO:1021: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021: GCCTTTCCTG GTTCTCTT	18
 (2) INFORMATION FOR SEQ ID NO:1022: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022: BCBGTBGBGT BGGGGBTTCC BTGGCBGGBG CCBTCTTCTT CBTGGBCTCC (2) INFORMATION FOR SEQ ID NO:1023: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	50
(D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023: TTCBBGGBGB CCTTBGGTTT CTGBGGGBCT GCTBBCBCGC CBTCTGGBGC (2) INFORMATION FOR SEQ ID NO:1024: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs	50
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024: GCCTGTGTCT GTCCTCCT	18
(2) INFORMATION FOR SEQ ID NO:1025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025: GCTTCGTTCC TCTCGTTC	18
(2) INFORMATION FOR SEQ ID NO:1026: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026: CTGCTTGGTG CCCTTGCCG	19
 (2) INFORMATION FOR SEQ ID NO:1027: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027: GTCCTGCTCC TCCGGGCTGT GG	22
(2) INFORMATION FOR SEQ ID NO:1028: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028: GTCCTCGCCC TGGCTCCGGC TGGTGGGCTC CCCTGG	. 36
(2) INFORMATION FOR SEQ ID NO:1029: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1029: CCTTCGCTGG CTGGCGGCGT GC	22
(2) INFORMATION FOR SEQ ID NO:1030: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1030: CCCBGBBCGB GBCCCGGBCC GBCB	
(2) INFORMATION FOR SEQ ID NO:1031: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1031: GGCCGTGGTT GGGGGGTCTTC	20
(2) INFORMATION FOR SEQ ID NO:1032: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1032: GCTGCCTCCG TTTGGGTGGC	20
(2) INFORMATION FOR SEQ ID NO:1033: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1033: GBTCTCTGBB TBTTGBCCTT CCBTGGCGGT CCTGCTTGGB	40
(2) INFORMATION FOR SEQ ID NO:1034: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1034: TCTCCCTTGG GCTCTGGCTC CTTCTC	
rorocerrag dereragere errere	26

(2) INFORMATION FOR SEQ ID NO:1035: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035: TCTCTCTCCCC TCTCTCTGT	. 21
(2) INFORMATION FOR SEQ ID NO:1036: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036: CGCCTCCGCC CTGGCTGCTG GGGTGGTGGT GC	32
(2) INFORMATION FOR SEQ ID NO:1037: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037: TTTTGTTCTT CCTTGCTGCC	20
(2) INFORMATION FOR SEQ ID NO:1038: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038: GCCCCGCTGC TTGTCTTCCT CG	22
(2) INFORMATION FOR SEQ ID NO:1039: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039: CTCTGTCCCT CTCTCTGT BCTCCTCBGG CTCCBTCBTC TCCCTTGGGC	50
(2) INFORMATION FOR SEQ ID NO:1040: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040: CTTGCTCCTG GGGGCCTCCT G	. 21
(2) INFORMATION FOR SEQ ID NO:1041: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041: GTCCCTCCGG GTGTTCCCGG C	21
(2) INFORMATION FOR SEQ ID NO:1042:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 81 base pairs(B) TYPE: nucleic acid	21

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042: GGGCCTGGCC TGGGGCBGGG GCCGCGTBGG CGCGGCTCGC CBGGBCGGCC BGCGCCBGCB GCBGCBGBTT CBGCBTCCTG G	60 81
(2) INFORMATION FOR SEQ ID NO:1043: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043: CTTGCTCCTG GGGGCCTCCT G	21
(2) INFORMATION FOR SEQ ID NO:1044: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044: GTCCCTCTGG CTGTTCCCGG C	21
(2) INFORMATION FOR SEQ ID NO:1045: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045: CCTGGBCTGG GGCBGGGGCC GCGTBGGCGC GGCTCGCCBG GBCGGGCBGC GCCBGCBGCBGCBGCBGCCBGC	60 90
(2) INFORMATION FOR SEQ ID NO:1046: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046: GGTGTGCGGG GCCTGGTGCC	20
(2) INFORMATION FOR SEQ ID NO:1047: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047: CCTGGGCCTC GGGTGCTGCC TGT	23
(2) INFORMATION FOR SEQ ID NO:1048: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048: GCGCTGCCTT CTTCTCCTGG	20
(2) INFORMATION FOR SEQ ID NO:1049: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049: GTCCTCGCCG GGGCCCTTGC TGCCCTGGCT GT	32
(2) INFORMATION FOR SEQ ID NO:1050: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1050: GCCCTGGGGGG TCTGGGTTCG GCTGT	25
(2) INFORMATION FOR SEQ ID NO:1051: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051: CCCCBGCBGG BCCBGTCCCB TCCBCBGCGT GTGBTGBGTB GCCBTTCTCC TGCBGCCGBG	60
(2) INFORMATION FOR SEQ ID NO:1052: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052: GGGCGCGGGC GBGCBTCGC	19
(2) INFORMATION FOR SEQ ID NO:1053: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053: TTTGGGCTTT TCTCCTTTGG TT	22
(2) INFORMATION FOR SEQ ID NO:1054: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054: TGBGCGCCBG GBCCGCGCBC BGCBGCGGGC CGCGGGCBGGG	60
(2) INFORMATION FOR SEQ ID NO:1055: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055: GCCCTGCTGC TCTTTCTGCT	20
 (2) INFORMATION FOR SEQ ID NO:1056: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056: 	20

TCCCTTGGTG GGTTGGGCC	19
(2) INFORMATION FOR SEQ ID NO:1057: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057: TTGCTGCCCC TTCTGTCCC	19
(2) INFORMATION FOR SEQ ID NO:1058: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058: GCT GGT TGT TCT GGG GTT C	19
(2) INFORMATION FOR SEQ ID NO:1059: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059: TGTTTGCTGG TGTCTGCGC	19
(2) INFORMATION FOR SEQ ID NO:1060: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060: CCCCBBCBGB BGBBGCBGBC BBBTTTGGGB BGTGBBCBGT TTTGGBBCCB TGTTTCCTGT	60
(2) INFORMATION FOR SEQ ID NO:1061: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061: GCGCTCGGCC TGGTCCCGG (2) INFORMATION FOR SEQ ID NO:1062:	19
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062: GGGTCTCCTC TTGTTGTTGC (2) INFORMATION FOR SEQ ID NO:1063: (i) SEQUENCE CHARACTERISTICS:	20
(A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063: TTGCGCCTCC TGCTGGGGGT CC (2) INFORMATION FOR SEQ ID NO:1064: (i) SEQUENCE CHARACTERISTICS:	22

 (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064: 	
CTCTGTTCTT GTTTTGGGGG C (2) INFORMATION FOR SEQ ID NO:1065: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	21
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065: GGGCCCGGCC GTTGTCTTG (2) INFORMATION FOR SEQ ID NO:1066: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid 	19
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066: GTTTGGGGGT TTCCGTTG (2) INFORMATION FOR SEQ ID NO:1067: (i) SEQUENCE CHARACTERISTICS:	18
(A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067: GGGTTCTCCT GGCCCGGGCC TTGCCC (2) INFORMATION FOR SEQ ID NO:1068: (i) SEQUENCE CHARACTERISTICS:	26
(A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068: GGCCGTGGTC CCGGCTTCGT TGC (2) INFORMATION FOR SEQ ID NO:1069:	23
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069: CCTGTCTCCG TCTCGGCTCT TCTG	24
(2) INFORMATION FOR SEQ ID NO:1070: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070: GGGCCTTGCG CTGTCTTTGG TG	22
(2) INFORMATION FOR SEQ ID NO:1071: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA	22

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071: GCBCCGTCCB GTGBTGGTGC GGTBCTTGTC GCTGCBGCGC TCGGCCTGGT CCCGGBGBGC	60
(2) INFORMATION FOR SEQ ID NO:1072: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072: GCGCGGGCCCG GGGCCTGCTG GG	22
(2) INFORMATION FOR SEQ ID NO:1073: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1073: GGTTGGCCCG GGGTGCCCC	10
 (2) INFORMATION FOR SEQ ID NO:1074: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	19
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1074: GCCGCTGGGT GCCCTCGTCC TCTGCGGTC (2) INFORMATION FOR SEQ ID NO:1075: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	29
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1075: GTGTCTCCTG GCTCTGGTTC CCC (2) INFORMATION FOR SEQ ID NO:1076: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	23
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076: GCTGCGCCCG TTGTCCTCTG GGGTGGCCTT C (2) INFORMATION FOR SEQ ID NO:1077: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	31
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077: GCTCCCGGGT CTGGTTCTTG TGT (2) INFORMATION FOR SEQ ID NO:1078: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:	23
GGGGGTCCC TTTTTGGGCC TGTTGT (2) INFORMATION FOR SEQ ID NO:1079: (i) SEQUENCE CHARACTERISTICS:	26

(A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079: GGCGTGGCTT GTGTGTTCGG TTTC	24
(2) INFORMATION FOR SEQ ID NO:1080: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080: TGCCCTGTCC TCCGGCGTCC C	21
(2) INFORMATION FOR SEQ ID NO:1081: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081: CGGBGCCTCC CCGGGGCBGG BTGBCTTTTG BGGGGGBCBC BGBTGTCTGG GCBTTGCCBG GTCCTGGGBB CBGBGCCCG BGCBGGBCCB GGBGTGCGGG CBGCGCGGC CGGGGGCTGC	60
TGGGBGCCBT BGCGBGGCTG BG (2) INFORMATION FOR SEQ ID NO:1082: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	120 142
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082: CCTCTTTTCT GTTTTCCC (2) INFORMATION FOR SEQ ID NO:1083: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	19
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083: CTCTGCCTTT GTTTGGGTTC G (2) INFORMATION FOR SEQ ID NO:1084: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	21
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084: CTTCCTTTCT GCTTCTCC (2) INFORMATION FOR SEQ ID NO:1085: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	19
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085: CTGTGTCTCC TGTCTCCGCT TTTTTCTTC (2) INFORMATION FOR SEQ ID NO:1086: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid	29

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086: GTCTTTGTTG TTTTCTCTTC CTTG	24
(2) INFORMATION FOR SEQ ID NO:1087: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087: CTGBGCBBGB TBTCTBGBTT CTGGGGTGGT CTCGBTTTTB BBBGCTTGBG BBGCTGCBBB CBTTBTCCBB BGTBTBTTTG BGGCTCCBBG GBTCBCGBCC BTCTTCCCBG GCBTTTTBBG TTGCTGTCGT	60 120 130
(2) INFORMATION FOR SEQ ID NO:1088: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:	
(2) INFORMATION FOR SEQ ID NO:1089: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	19
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089: CGTTGGCTTC TCGTTGTCCC (2) INFORMATION FOR SEQ ID NO:1090: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	20
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090: TGTGGGCTTC TCGTTGTCCC (2) INFORMATION FOR SEQ ID NO:1091: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091: CCCCTTCGGGG GCTGGTGG	20
(2) INFORMATION FOR SEQ ID NO:1092: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092: GGCTGGTGG	9
 (2) INFORMATION FOR SEQ ID NO:1093: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093: GGCCGTCCTT GCCTGCTGG	19
(2) INFORMATION FOR SEQ ID NO:1094: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094: TTTTCTCTTT CGCTTTCTTT TCGTCTCCTG TTCCTCCTTT T	41
(2) INFORMATION FOR SEQ ID NO:1095: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095: TTGCTGTTTT TTCTCCTTCT TCTCTCCTTT CTTTTC	36
(2) INFORMATION FOR SEQ ID NO:1096: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096: TTTTCTCTTT CGCTTTCTTT TCGTCTCCTG TTCCTCCTTT T	41
(2) INFORMATION FOR SEQ ID NO:1097: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097: TTGCTGTTTT TTCTCCTTCT TCTCTCCTTT CTTTTC	36
(2) INFORMATION FOR SEQ ID NO:1098: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098: CTCTGTCTTG TTCTGGTCCT TCGTGGGGCT CTG	33
(2) INFORMATION FOR SEQ ID NO:1099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099: TGTCGCGTGG GTGCGGCCCT	24
(2) INFORMATION FOR SEQ ID NO:1100: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100: GGCGGBCCBG GBGTTGGBGC BGGBGCBGGB CGGGCBGGCG GCTCBTGTTT GGBTCGGCBG GBGGCBCCTC	60
550005010	69

(2) INFORMATION FOR SEQ ID NO:1101: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101: TCTGGGGGTGT CCTG	14
(2) INFORMATION FOR SEQ ID NO:1102: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102: GCCTTCGTGG TTCC	
 (2) INFORMATION FOR SEQ ID NO:1103: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	14
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103: TCTTCCTTCG TTTGC (2) INFORMATION FOR SEQ ID NO:1104: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	15
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104: GGCTGCGCTC CTGCCCCGC (2) INFORMATION FOR SEQ ID NO:1105: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	19
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105: CGTCCGCGGG GGCCCCCGGG CCT (2) INFORMATION FOR SEQ ID NO:1106: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	23
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106: CTCTTTCCCG GGCTCTT (2) INFORMATION FOR SEQ ID NO:1107: (i) SEQUENCE CHARACTERISTICS:	17
(A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (**i) SEQUENCE DESCRIPTION: SEQ ID NO:1107: GCGCTGGGGG GTGCTCC (2) INFORMATION FOR SEQ ID NO:1108:	17
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 28 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108: CGTGTGTTTG CGCCCTCCTC CTGGTCGC	28
(2) INFORMATION FOR SEQ ID NO:1109: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109: GCTTGTCGTT TTGG	14
(2) INFORMATION FOR SEQ ID NO:1110: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110: GGCCGGCTTT GCCCGCCTCC C	21
(2) INFORMATION FOR SEQ ID NO:1111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111: GGCGCCTGGC CCGGCC	16
(2) INFORMATION FOR SEQ ID NO:1112: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112: TTCCTGGGCT GCGTGCGC	18
(2) INFORMATION FOR SEQ ID NO:1113: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113: GTTCTGTTCT TCTTCCTGGC	20
(2) INFORMATION FOR SEQ ID NO:1114: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114: GCBGGBGBCB GGGCBGGCG BTCBGGBGCB GCGTGBGCCB BBGGBGGBCC BTCGGGBBCG CBGCTCCGGB BCGCBGGB	60 78
(2) INFORMATION FOR SEQ ID NO:1115: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115: CTCTGGTTGG CTTCCTTC	18

(2) INFORMATION FOR SEQ ID NO:1116: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:	
GCCGGCBCBT GCTBGCBGGB BGBBCBGBGG GGGBBGCBGT TGGGBGGTGB GBCCCBTTBB TBGGTGTCGB	60 70
(2) INFORMATION FOR SEQ ID NO:1117: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117: TCTGCGCGCCC CCTGCTCC	18
 (2) INFORMATION FOR SEQ ID NO:1118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118: CGCCCGGCTT CTCT	14
(2) INFORMATION FOR SEQ ID NO:1119: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119: CGTGTGGGCT TCGG	14
(2) INFORMATION FOR SEQ ID NO:1120: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120: CCCCGCGCCCT CCGTTGTTCT C	21
(2) INFORMATION FOR SEQ ID NO:1121: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121: TGCTCGCTGG GCTTG	15
(2) INFORMATION FOR SEQ ID NO:1122: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122: GGTTTCCTGG GGCCCTGGGT TTC	23
(2) INFORMATION FOR SEQ ID NO:1123:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123: TCTGCCGGGT CGTTTTC	17
(2) INFORMATION FOR SEQ ID NO:1124: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124: GGGTGCTGGC TGCG	14
(2) INFORMATION FOR SEQ ID NO:1125: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125: CTTGGTGCTG GGGCTCC	17
(2) INFORMATION FOR SEQ ID NO:1126: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126: GGCGGCTGCG GGCTGGGTTG GG	22
(2) INFORMATION FOR SEQ ID NO:1127: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127: CTTGGCTGGT TCCTGGCCTC GGG	23
(2) INFORMATION FOR SEQ ID NO:1128: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128: CCTCCTCCTC CTCCTCGCTC CCTTTTTCTT CCTCT	35
(2) INFORMATION FOR SEQ ID NO:1129: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129: TCCCTGCTGC TCTC	14
 (2) INFORMATION FOR SEQ ID NO:1130: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130: 	

TGCCCTCCCT TCCCTCCTGG	20
(2) INFORMATION FOR SEQ ID NO:1131: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131: GGTGCCTCCT TGGGCCCTGC	20
(2) INFORMATION FOR SEQ ID NO:1132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132: GGCTGCTCCT TGCCCC	16
(2) INFORMATION FOR SEQ ID NO:1133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133: CTCTGGGTCG GGCTGGC	17
(2) INFORMATION FOR SEQ ID NO:1134: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134: GGGGCGTCTC TGTGC	15
(2) INFORMATION FOR SEQ ID NO:1135: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135: CTGGCCTGGG TGCC	14
(2) INFORMATION FOR SEQ ID NO:1136: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136: GCCTCTCCTG GGGGGGTGGC TCCCTGTCC	29
(2) INFORMATION FOR SEQ ID NO:1137: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137: CCTTTTCCCC CGGCTCC (2) INFORMATION FOR SEQ ID NO:1138:	17
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138: GTGGGGGGCTT TGGC	14
 (2) INFORMATION FOR SEQ ID NO:1139: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139: GGGGGTCTGT GGCCTGCTCC TGGGG	25
 (2) INFORMATION FOR SEQ ID NO:1140: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140: AGGGGTCTGG GGCCCTC	17
(2) INFORMATION FOR SEQ ID NO:1141: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141: TTTTGGGGGT CTGGCTTG	18
(2) INFORMATION FOR SEQ ID NO:1142: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142: GCCTGGCTGC CTTCC	15
(2) INFORMATION FOR SEQ ID NO:1143: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:	
GGGGCCTGCC GTGGGGC (2) INFORMATION FOR SEQ ID NO:1144: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	17
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144: TGTCCTCTGT TGCTCCCCTT	20
 (2) INFORMATION FOR SEQ ID NO:1145: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145: TGCCTGCTGT CTGG	14

(2) INFORMATION FOR SEQ ID NO:1146: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146: GGTTCCCGCC TTCCCT	16
(2) INFORMATION FOR SEQ ID NO:1147: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147: GTTCCCAGAG CTTGCCACCT GCAGCAGGAC CAGGCAGCTC ACAGGGAACA GGAGCCCAGA GCAAAGCCAC CCCATTGGGA GATGCCAAGG CACCAGGCTG	60 100
(2) INFORMATION FOR SEQ ID NO:1148: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148: GTTCCCBGBG CTTGCCBCCT GCBGCBGGBC CBGGCBGCTC BCBGGGBBCB GGBGCCCBGB GCBBBGCCBC CCCBTTGGGB GBTGCCBBGG CBCCBGGCTG	60
(2) INFORMATION FOR SEQ ID NO:1149: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149: TCCCTGTTTC CCCCCTTT	100
(2) INFORMATION FOR SEQ ID NO:1150: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150: CGTTCTGCGT TTGCCTTTGG C	21
(2) INFORMATION FOR SEQ ID NO:1151: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151: GTTTTTTGTT TGTTTTCT	18
(2) INFORMATION FOR SEQ ID NO:1152: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152: CTCTCCCGTCT TTCTTCTCC	19
(2) INFORMATION FOR SEQ ID NO:1153:	

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153: CCTCCTGCCT GTGTCCCTGC TCCCC	25
(2) INFORMATION FOR SEQ ID NO:1154: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154: GAGGGTTTCT GGCTTCCTCT CT	22
(2) INFORMATION FOR SEQ ID NO:1155: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155: TGTCTCTCTG TCCTTTTGTT	20
(2) INFORMATION FOR SEQ ID NO:1156: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156: TGTTGTGCGG CCTGGTGCTG CCCTGCCCCG GG	32
(2) INFORMATION FOR SEQ ID NO:1157: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157: GTGGGBBTTT CTGTGGGGBT GGCBTBCBCG TBGGCBGCTC CBBGBGCTBG CBBBCTCBBB	60
(2) INFORMATION FOR SEQ ID NO:1158: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:1158:	89
(2) INFORMATION FOR SEQ ID NO:1159: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1159:	17
TTCCTTTGCT CTTG (2) INFORMATION FOR SEQ ID NO:1160: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid	14

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1160: GTGTGTCTTT GCTGT (2) INFORMATION FOR SEQ ID NO:1161: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid	15
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161: GCCCTGCCTC TCTGC	15
(2) INFORMATION FOR SEQ ID NO:1162: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162: GGGGGTGGCT TCCTGCC	17
(2) INFORMATION FOR SEQ ID NO:1163: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163: GCGTCTCTGG GCCGTCCC	18
(2) INFORMATION FOR SEQ ID NO:1164: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164: GTCCCTCGGC CCCGCGCCGC GCTCGGCTCC TCTCCC	
 (2) INFORMATION FOR SEQ ID NO:1165: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:1165: 	36
TCTGGCCCGG CTC (2) INFORMATION FOR SEQ ID NO:1166: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:	13
GGGGCGGGC GGGGCGGGC (2) INFORMATION FOR SEQ ID NO:1167: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	26
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167: GGCGCTGCCC TGCGC	15

(2) INFORMATION FOR SEQ ID NO:1168: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168: GCGGCGCTGG CCCC	14
(2) INFORMATION FOR SEQ ID NO:1169: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169: TGCTGGCCGT CGGCTGCGCG CTGCTGGCTG CCCT	34
(2) INFORMATION FOR SEQ ID NO:1170: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170: GCTGGCCGCG CCGGG	15
(2) INFORMATION FOR SEQ ID NO:1171: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171: GCCTGTCCGC CTCTGCGGG	19
(2) INFORMATION FOR SEQ ID NO:1172: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172: CGCTGTCTCC TGGC	14
(2) INFORMATION FOR SEQ ID NO:1173: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173: TTGTCTTCCG GCTCT	15
(2) INFORMATION FOR SEQ ID NO:1174: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174: TCTGCTGGGG TGGG	
(2) INFORMATION FOR SEQ ID NO:1175: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	14

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175: GCTGGGCGGC CGGCCCGGT	19
(2) INFORMATION FOR SEQ ID NO:1176: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176: GCTGGGGCTC CTCGGGGGG	19
(2) INFORMATION FOR SEQ ID NO:1177: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177: GGGGGGCTCTT CCGG	14
(2) INFORMATION FOR SEQ ID NO:1178: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178: GCTGTCTCCC TCCGGG	16
(2) INFORMATION FOR SEQ ID NO:1179: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179: GCGGGGGGTTT CTGGCC	16
(2) INFORMATION FOR SEQ ID NO:1180: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180: GTGGGGGGTCT TGCC	14
(2) INFORMATION FOR SEQ ID NO:1181: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181: TGGCCTCCGG GCTCC	
<pre>(2) INFORMATION FOR SEQ ID NO:1182: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:</pre>	15
IGCTTGTCTT GCCTTCCTTC	20

(2) INFORMATION FOR SEQ ID NO:1183:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183: TCTGGTCGGT TGTGGCTCG	19
(2) INFORMATION FOR SEQ ID NO:1184: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184: GGGCTCCGTG GGTCCCTGGC	20
 (2) INFORMATION FOR SEQ ID NO:1185: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185: GCCCGTTTGT GTTTTGTC (2) INFORMATION FOR SEQ ID NO:1186: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single</pre>	18
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186: TTTTCCCCTG GCGT (2) INFORMATION FOR SEQ ID NO:1187: (i) SEQUENCE CHARACTERISTICS:	14
(A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187: CCCTGTGCCC CTCTCCTCTC CTTCCTCTCC	35
 (2) INFORMATION FOR SEQ ID NO:1188: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188: 	
GCTCTCCTTT GTGGG (2) INFORMATION FOR SEQ ID NO:1189: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	15
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189: GCCCTCCCTG CTGCT (2) INFORMATION FOR SEQ ID NO:1190:	15
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190: CTTGGTTTTG GGCT	14
(2) INFORMATION FOR SEQ ID NO:1191: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191: TTTTTTCTCT TCCTCCTTTT TC	22
(2) INFORMATION FOR SEQ ID NO:1192: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192: GTGCGTGGGC CTCC	14
(2) INFORMATION FOR SEQ ID NO:1193: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:	14
(2) INFORMATION FOR SEQ ID NO:1194: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:	8
GCACGCCTCT TGCCACCTCC TGCGCAGGGC AGCGCCTTGG GGCCAGCGCC GCTCCCGGCG CGGCCAGCAG GGCAGCCAGC AGCGCGCAGC CGACGGCCAG CATGCTTCCT CCTCGGCTAC (2) INFORMATION FOR SEQ ID NO:1195: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA	60 120 150
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195: GGCCBGCBGG (2) INFORMATION FOR SEQ ID NO:1196: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA	10
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196: GCBCGCCTCT TGCCBCCTCC TGCGCBGGGC BGCGCCTTGG GGCCBGCGC GCTCCCGGCG CGGCCBGCBG GGCBGCCBGC BGCGCCBGC CGBCGCCBG CBTGCTTCCT CCTCGGCTBC (2) INFORMATION FOR SEQ ID NO:1197: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	60 120 150

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197: GCTTCTCTTT CGTTCCCGGT GGGCTCG	27
(2) INFORMATION FOR SEQ ID NO:1198:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198: GTGGCTGTCT GTGTGGGGCG GCT 	23
(2) INFORMATION FOR SEQ ID NO:1199: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199: GTGCCTCTTT GCTGCTTC	19
	19
(2) INFORMATION FOR SEQ ID NO:1200: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200: GATTCTTTGC CTTTTTCTGC	20
(2) INFORMATION FOR SEQ ID NO:1201: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201: GCTTGTGTGCT CT	22
 (2) INFORMATION FOR SEQ ID NO:1202: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202: 	
(2) INFORMATION FOR SEQ ID NO:1203: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	37
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203: TTCTCTTGGC CCTTGGC	17
 (2) INFORMATION FOR SEQ ID NO:1204: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204: TGGTGGGGCT GGGGCTCCGG GGTCTCTGCC CCTCCGTGC	39

(2) INFORMATION FOR SEQ ID NO:1205: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205: CGCGTGGGGC CGCGCTCGCC GGCCCCCC	28
 (2) INFORMATION FOR SEQ ID NO:1206: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206: 	
CCTGCCGGGT GGGCTCCCGC CGCG (2) INFORMATION FOR SEQ ID NO:1207: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	24
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207: CGCCGGCCTG CCGGCCCCTC (2) INFORMATION FOR SEQ ID NO:1208: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	20
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208: GTGGGTCCTG CTGGCCGGGT CCGGGTCCCG GGGGTGGGG (2) INFORMATION FOR SEQ ID NO:1209: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA</pre>	39
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209: CGCGBGTCGG CGGCCGBGGG TC (2) INFORMATION FOR SEQ ID NO:1210: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:</pre>	22
(x1) SEQUENCE DESCRIPTION: SEQ ID NO:1210: GGCCTCCBCC BGGGBCBTG (2) INFORMATION FOR SEQ ID NO:1211: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211: GTCCTTCTTG TCCGCTGCC	19
(2) INFORMATION FOR SEQ ID NO:1212:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 25 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212: TCTCTGGGGT TTTCGGTCTG GGTGG	25
(2) INFORMATION FOR SEQ ID NO:1213: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213: GCTTTCCTCC TGGGGCTGCT GCTG	24
 (2) INFORMATION FOR SEQ ID NO:1214: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214: 	
GGCTCTTCTT TTTGTTTCTG GCCTGGTG (2) INFORMATION FOR SEQ ID NO:1215: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	28
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215: CTCTCTCGTG CCCTTTCC (2) INFORMATION FOR SEQ ID NO:1216:	18
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216: CTTGGGTGTC TTGTTTTTGT	20
 (2) INFORMATION FOR SEQ ID NO:1217: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217: GGCCTCCBCC BGGGBCBTG	19
 (2) INFORMATION FOR SEQ ID NO:1218: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218: 	
GTGGGGCCTG CTCTCCCGGC CTCCG	25
 (2) INFORMATION FOR SEQ ID NO:1219: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:1219: 	

TGTGTTGCTG GGTGTTTTCC CGTCTCTGG	29
(2) INFORMATION FOR SEQ ID NO:1220: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220: TCTGCCTTCG GGGGTCGT	18
(2) INFORMATION FOR SEQ ID NO:1221: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221: GGGTCCTCBT GGCTGGGG	18
(2) INFORMATION FOR SEQ ID NO:1222: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222: GCCTGGGCCT GCBGGGCC	10
(2) INFORMATION FOR SEQ ID NO:1223: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:	18
GCTCTTGCCT GGBGTGGCTC (2) INFORMATION FOR SEQ ID NO:1224: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224: GCCCBGBGTC TTCCCTGGT	20
(2) INFORMATION FOR SEQ ID NO:1225: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225: GGGTCCTCBT GGCTGGGGTC	19
(2) INFORMATION FOR SEQ ID NO:1226: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:	20

CCTCTCTCCC GTCCT	15
(2) INFORMATION FOR SEQ ID NO:1227: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227: GTCTTTGTTT CTGGGCTCGT GCC	23
(2) INFORMATION FOR SEQ ID NO:1228: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228: CCBTCCCGGC TTCTCTCTGG TTCC	24
(2) INFORMATION FOR SEQ ID NO:1229: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229: GTCCTCTGTG GTGTTTGG	18
(2) INFORMATION FOR SEQ ID NO:1230: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230: CCCTGCTTCC TTTTGCCTGT T	21
(2) INFORMATION FOR SEQ ID NO:1231: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231: GAGGGGGCAG CAGTTGGGCC CCAAAGGCCC TCTCGTTCAC CTTCTGGCAC GGAGTTGCAT CCCCATAGTC AAACTCTGTG GTCGT	60 85
(2) INFORMATION FOR SEQ ID NO:1232: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232: GTCATAGTCC TCTGTGGTGT TTGGAGTTTC CATCCCGGCT TCTCTCTGGT TCCAAGGGA	59
(2) INFORMATION FOR SEQ ID NO:1233: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233: GBGGGGGCBG CBGTTGGGCC CCBBBGGCCC TCTCGTTCBC CTTCTGGCBC GGBGTTGCBT	60
CCCCBTRCTC BRRCTCTCTC CTCCTC	86

(2) INFORMATION FOR SEQ ID NO:1234: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234: TCBTBGTCCT CTGTGGTGTT TGGBGTTTCC BTCCCGGCTT CTCTCTGGTT CCBBGGGB	58
(2) INFORMATION FOR SEQ ID NO:1235: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235: GGGCBCGGGG CBGTGGGCGG GCBBTGTBGG CBBBGCBGCB GGGTGTGGTG TCCGBGGBBT BTGGGGBGGC BGBTGCBGGB GCGC	60 84
(2) INFORMATION FOR SEQ ID NO:1236: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236: BGBGGGCBGT BGCBBTGBGG BTGBCBGCGB GGCGTGCCGC GGBGBCCTTC BTGGTBCCTG	60
TGGBGBGGCT GTCGGBGG (2) INFORMATION FOR SEQ ID NO:1237: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237: GGGTGTGGTG TCCGCTTGGC GGTTCTTTCG GGTGTTTCTT CTCTGGGTTG GCCTGCTGCT CGTCGTGGTC	78 60 70
(2) INFORMATION FOR SEQ ID NO:1238: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238: GCTCCGCTCC CGGGTTCGTC TCGCTCTGTC GCCCCTTCCT TCCTTGTCGT GTTCCTCCCT	60 71
(2) INFORMATION FOR SEQ ID NO:1239: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239: GGGTGTGGTG TCCG	14
 (2) INFORMATION FOR SEQ ID NO:1240: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240: 	

CTTGGCGGTT CTTTCGGGTG	20
(2) INFORMATION FOR SEQ ID NO:1241: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241: TTTCTTCTCTCT GGGTTGGC	18
(2) INFORMATION FOR SEQ ID NO:1242: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242: CTGCTGCTCG TCGTGGTC	18
(2) INFORMATION FOR SEQ ID NO:1243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243: GCTCCGCTCC CGGGTTC	17
(2) INFORMATION FOR SEQ ID NO:1244: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244: GTCTCGCTCT GTCGCCC	17
(2) INFORMATION FOR SEQ ID NO:1245: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245: CTTCCTTCCT TGTC	14
(2) INFORMATION FOR SEQ ID NO:1246: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246: GTGTTCCTCC CTTCCTTGCC TCT	23
(2) INFORMATION FOR SEQ ID NO:1247: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247: GTTCBTGGTG GCTBGGTGGG GC	22
(2) INFORMATION FOR SEQ ID NO:1248: (i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248: GCTGCCCGGC GGGGTGTGCG CTTGGC	26
(2) INFORMATION FOR SEQ ID NO:1249: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249: GCTCCCGTGC TCGGTTCTCT GTCTCCCGGT	30
(2) INFORMATION FOR SEQ ID NO:1250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250: CCCCCTTTGC CTGGCGTCTC GG	22
(2) INFORMATION FOR SEQ ID NO:1251: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251: GCCTTCGTCC TCTTCCTCTT CTTCCTTCC	
(2) INFORMATION FOR SEQ ID NO:1252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252: GCTCCGTGGG GGCTGCTTGG TGGGGGGCCTG TGCCTCGGGG TCC	29
(2) INFORMATION FOR SEQ ID NO:1253: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253: CGGGGCTTCT GGCCCTTGCC	43
 (2) INFORMATION FOR SEQ ID NO:1254: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:1254: 	20
GTTCATGGTG GCTAGGTGGG GC (2) INFORMATION FOR SEQ ID NO:1255: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA	22

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255: GGGGTGGGTB GGCCGTGTCT GGGG	24
(2) INFORMATION FOR SEQ ID NO:1256: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256: GTTGGCCBTG TTGGTTGCC	19
(2) INFORMATION FOR SEQ ID NO:1257: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257: TCTTGGTGGT GCGCCGGGC	19
(2) INFORMATION FOR SEQ ID NO:1258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 47 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258: GCGTCTTGGC TTTCTTCTCC TTCGGGCCCT CGGGCCGGTG CTTGTGG	47
(2) INFORMATION FOR SEQ ID NO:1259: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259: GCTCCTCCCG GGCGGCCTCC CCGGGCGGGG GCTTCTTG	
(2) INFORMATION FOR SEQ ID NO:1260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260: GCGCTGGCGG GGGGGCCTCC TCC	23
(2) INFORMATION FOR SEQ ID NO:1261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261: GCTCTGTGGC TGGGCGTTCC TTGGTGTTCT GGGTGGC	37
(2) INFORMATION FOR SEQ ID NO:1262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262: TGGCGGGCGT GGTGGCCTCT GTGGTGG	27
(2) INFORMATION FOR SEQ ID NO:1263:	

(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 19 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
<pre>(ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263: GGGCCCGCGG CTGCBGGGG</pre>	19
(2) INFORMATION FOR SEQ ID NO:1264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264: TTGCCTGTCT GCTTCGTC	18
 (2) INFORMATION FOR SEQ ID NO:1265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265: 	
CTTTGCGCTC CCGGGCCGCC (2) INFORMATION FOR SEQ ID NO:1266: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid	20
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266: GGGGTGGGTA GGCCGTGTCT GGGG	24
(2) INFORMATION FOR SEQ ID NO:1267: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267: GTTGGCCATG TTGGTTGCC	19
(2) INFORMATION FOR SEQ ID NO:1268: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268: GGGCCCGCGG CTGCAGGGG (2) INFORMATION FOR SEQ ID NO:1269:	19
(2) INFORMATION FOR SEQ ID NO:1269: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269: CGGTTTCCTT TGCGGTC	17
 (2) INFORMATION FOR SEQ ID NO:1270: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270: TTGGCCCGGG CTCCGGGTG	19
(2) INFORMATION FOR SEQ ID NO:1271: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271: CCCGCCCGCC CGCCGGCCGC CGC	23
(2) INFORMATION FOR SEQ ID NO:1272: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272: CCCGCCGGGGC TGTCCCCGCC CCGCCCC	27
(2) INFORMATION FOR SEQ ID NO:1273: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273: GGCCCGGGGGC GCGGGGG	17
(2) INFORMATION FOR SEQ ID NO:1274: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274: CGGCCCTCCC GCCCCTCTGG	20
(2) INFORMATION FOR SEQ ID NO:1275: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275: GCCGGCGCGGG GCGTCGG	17
(2) INFORMATION FOR SEQ ID NO:1276: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276: CCGCTCGCGC CTGGGGTTCC CTCTCCTCCC CCTGTGC	37
(2) INFORMATION FOR SEQ ID NO:1277: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277: GCCTGCCTCT TGCTCTTC	18

(2) INFORMATION FOR SEQ ID NO:1278:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278: TGCGTCCGCT GCCTTCTCCC	20
(2) INFORMATION FOR SEQ ID NO:1279: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279: CTCTCCTCGG CCGTTGCCTG TGC	23
(2) INFORMATION FOR SEQ ID NO:1280: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280: TGTCCGTCCT GTCGCCCTTC CGTGGTGC	28
(2) INFORMATION FOR SEQ ID NO:1281: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281: TGTTGTCTCT TCTGCCCTC	19
(2) INFORMATION FOR SEQ ID NO:1282: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282: GGTGTGCTGG TGCTGGTGGT GGTG	24
(2) INFORMATION FOR SEQ ID NO:1283: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283: CCTCTGCCCG TGCTCGCC	18
(2) INFORMATION FOR SEQ ID NO:1284: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284: CTGCCTGGGC TGGCCTCTTC GGGT	24
(2) INFORMATION FOR SEQ ID NO:1285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	-

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285: GTGGCTTTGG GGCTCTCTTG GTTGCCCTTT	30
(2) INFORMATION FOR SEQ ID NO:1286: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286: CTTCTCGTGG TGCCTCTCCT CCCTGGCTTG GTCGT	35
(2) INFORMATION FOR SEQ ID NO:1287: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287: TGTCTGGGGT GGTGCTCCTC TCCC	
(2) INFORMATION FOR SEQ ID NO:1288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	24
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288: TTTCCCTGCT GGCCGTTTGT (2) INFORMATION FOR SEQ ID NO:1289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	20
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289: CCTGTTTCT GTCTCCTCT (2) INFORMATION FOR SEQ ID NO:1290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs	20
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290: TTCCTCCTGT TTCTCCGT (2) INFORMATION FOR SEQ ID NO:1291:	18
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291: TTGGCTTGCT GCTTGCGGGG CTGTCTCC (2) INFORMATION FOR SEQ ID NO:1292:	28
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292: CTTGCCCCTG TGGGCTTTCC C (2) INFORMATION FOR SEQ ID NO:1293:	21
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293: TGGTCCGGTC TTCTCCTTGG GGGTC	25
(2) INFORMATION FOR SEQ ID NO:1294: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294: GCCCTTCTTG GTGGGCTG	18
(2) INFORMATION FOR SEQ ID NO:1295: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295: GCTCGTCTGT CTTTTTCCTT CC	22
(2) INFORMATION FOR SEQ ID NO:1296: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296: TGGGGGTTGGC CGTTGTGGGC GGTGTGGTCC GCCT	34
(2) INFORMATION FOR SEQ ID NO:1297: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297: TGCCTCTGCT GGTCTTC	18
(2) INFORMATION FOR SEQ ID NO:1298: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298: GTGCTCCGGT GGCTTTT	18
(2) INFORMATION FOR SEQ ID NO:1299: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299: GCTTGTGTGCC TCTGCTGTCT CTG	23
 (2) INFORMATION FOR SEQ ID NO:1300: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300: 	

TTCCTTCCGG TGGTTTCTTC CTGGCTCTTG TCCT	34
(2) INFORMATION FOR SEQ ID NO:1301: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301: TTCTCTTGGC CCTTGGCCC	19
(2) INFORMATION FOR SEQ ID NO:1302: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302: TGGCTCGGTG CTTCTGCCCC	20
(2) INFORMATION FOR SEQ ID NO:1303: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303: TGTTGTTGCG GCGCTC	16
(2) INFORMATION FOR SEQ ID NO:1304: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304: GGTTGGTGTG GCCCCTG	17
(2) INFORMATION FOR SEQ ID NO:1305: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305: TGGTGCTTCG TTTCC	15
(2) INFORMATION FOR SEQ ID NO:1306: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306: CCCTCTTTCT CTTTGTTC	18
(2) INFORMATION FOR SEQ ID NO:1307: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307: GGGGGTTCTT GTGGC	15
(2) INFORMATION FOR SEQ ID NO:1308:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 19 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308: GGGCTGCTTG TCTCGTTCC	19
(2) INFORMATION FOR SEQ ID NO:1309: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309: GGTCCBGCCB TGGGTCTGGG	20
(2) INFORMATION FOR SEQ ID NO:1310: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310: GGCTGGGCTG CBGGCTCCGG	20
(2) INFORMATION FOR SEQ ID NO:1311: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311: GCGGGCGGGT GCGGGCTGCG TGCTGGG	27
(2) INFORMATION FOR SEQ ID NO:1312: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312: GGCTGCCCCG CAGGCCCTGC	20
(2) INFORMATION FOR SEQ ID NO:1313: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:	
GCBCCGCCTG GBGCCCTGGG GCCCCCCTGT CTTCTTGGGG BGCGCCTCCT CGGCCBGCTC CBCGTCCCGG BTCBTGCTTT CBGTGCTCBT GGTGTCCTTT CCBGGGGBGB GBGG (2) INFORMATION FOR SEQ ID NO:1314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:	60 115
GCTGGTCCTC TGCTGTCCTT GCTGGTGCTC BTGGTGTCCT TTCCGCCCTG GGGCCCCCCT GTCTTCTTGG GGCCTCTCTCC CTCTTGGGGGC CGTCTCTCTC	60 120 180 240 300

GGGCTCCGTG TCTCCBGTGC TCBTGGTGTC C	331
(2) INFORMATION FOR SEQ ID NO:1315: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315: GCTGBGGGBG CGTCTGCTGG CGCTGGTCCT CTGCTGTCCT TGCTGGTGCT CBTGGTGTCC	60
TTTCCGCCCT GGGGCCCCCC TGTCTTCTTG GGGCCTCTTC CCTCTGGGGG CCGTCTCTCT CCCTCTCTTG CGTCTCTCTC	120 180 240 300 360 373
 (2) INFORMATION FOR SEQ ID NO:1316: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316: 	
GCCCCGTCTG CTGCTCCTCG TGCCG	25
 (2) INFORMATION FOR SEQ ID NO:1317: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317: 	22
CCTCGTCCTT CATGGTACCG TCGGTGTGGT GGC	33
(2) INFORMATION FOR SEQ ID NO:1318: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318: CTCGGGTTGGG CCGGTGGTG	19
(2) INFORMATION FOR SEQ ID NO:1319:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319: GGGCGCGCGC GCTCGCGT 	18
 (2) INFORMATION FOR SEQ ID NO:1320: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 49 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320: 	
GGCTCCGGCT CTTCTTTCCC GGCTCCGTCG GCCCGGGGC CTTGGTCTC (2) INFORMATION FOR SEQ ID NO:1321: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	49

(D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321: CCTCGTCCTT CBTGGTBCCG	20
(2) INFORMATION FOR SEQ ID NO:1322: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322: CCCGTTCGCC TGGCGC	16
(2) INFORMATION FOR SEQ ID NO:1323: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323: GCGCTGCGGGG TTCCTC	16
(2) INFORMATION FOR SEQ ID NO:1324: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324: GTGGGTTTCT CCCCGCCGTT CTC	23
(2) INFORMATION FOR SEQ ID NO:1325: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325: CGGTCTGTTG CCTTTGTGGG	20
(2) INFORMATION FOR SEQ ID NO:1326: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326: CTTCTTGTCT TTTTGGCT	18
 (2) INFORMATION FOR SEQ ID NO:1327: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327: 	
(2) INFORMATION FOR SEQ ID NO:1328: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	18
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328: GTCTTTTCCT TTCTT	15

(2) INFORMATION FOR SEQ ID NO:1329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329: TGTGCTCGGT TGTGGGTC	18
(2) INFORMATION FOR SEQ ID NO:1330: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330: CGCTGGTCCT TTGCC	15
(2) INFORMATION FOR SEQ ID NO:1331: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331: CTGTGTGTTTT CTGCTG	16
(2) INFORMATION FOR SEQ ID NO:1332: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332: CCCCGTTCGCC TGGCGC	16
(2) INFORMATION FOR SEQ ID NO:1333: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333: GCGCTGCGGGG TTCCTC	16
(2) INFORMATION FOR SEQ ID NO:1334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334: GTGGGTTTCT CCCCGCCGTT CTC	23
(2) INFORMATION FOR SEQ ID NO:1335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:	
CGGTCTGTTG CCTTTGTGGG (2) INFORMATION FOR SEQ ID NO:1336: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	20

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336: CTTCTTGTCT TTTTGGCT	18
(2) INFORMATION FOR SEQ ID NO:1337: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337: GTTCTTTTCC TGCTTGGC	18
(2) INFORMATION FOR SEQ ID NO:1338: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338: GTCTTTTCCT TTCTT	4.5
(2) INFORMATION FOR SEQ ID NO:1339: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339: TGTGCTCGGT TGTGGGTC	15
(2) INFORMATION FOR SEQ ID NO:1340: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340: CGCTGGTCCT TTGCC	18
(2) INFORMATION FOR SEQ ID NO:1341: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341: CTGTGTGTTTT CTGCTG	16
(2) INFORMATION FOR SEQ ID NO:1342: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342: GCGTCCGGTG GCCGCCGC	18
(2) INFORMATION FOR SEQ ID NO:1343: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343: GCCTCTCTCC TCTCCCC	17
	17

(2) INFORMATION FOR SEQ ID NO:1344:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344: GTGGCCCTGT CGGGCGGG	18
(2) INFORMATION FOR SEQ ID NO:1345: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345: TCCTGCCGTC CTGTCTCCTT T	21
(2) INFORMATION FOR SEQ ID NO:1346: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346: TCTTTTGCTG TCTTGT	16
(2) INFORMATION FOR SEQ ID NO:1347: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347: CTTCCCGTCT CTGCTTT	17
(2) INFORMATION FOR SEQ ID NO:1348: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348: GTCTGTCCTC CCCGTCTCCT CCC	23
(2) INFORMATION FOR SEQ ID NO:1349: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349: ACTGCTTCTC CCGGGG	16
(2) INFORMATION FOR SEQ ID NO:1350: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350: GCTTCCCCGG CTTC	14
 (2) INFORMATION FOR SEQ ID NO:1351: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351: GGGTGGCCGG TGTCCCGGGC TCCGGCGCGG CGGC	34
(2) INFORMATION FOR SEQ ID NO:1352: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352: GGCTTCGGCT GC	12
(2) INFORMATION FOR SEQ ID NO:1353: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353: GGGTGGGTGG CGCGG	15
(2) INFORMATION FOR SEQ ID NO:1354: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354: GCTGCCGGGT CCGCGCGCG CCTGGGCC	28
(2) INFORMATION FOR SEQ ID NO:1355: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355: CTTGTGCTGC TTTT	14
(2) INFORMATION FOR SEQ ID NO:1356: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356: TGCTTGTTCC GTTC	14
(2) INFORMATION FOR SEQ ID NO:1357: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (**i) SEQUENCE DESCRIPTION: SEQ ID NO:1357: TGGCTGCTCC GGTCTGTGTT GTGGTTGTTT TG	32
 (2) INFORMATION FOR SEQ ID NO:1358: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358: 	32
TTTCTTCTTG GGTGTGGG (2) INFORMATION FOR SEQ ID NO:1359: (i) SEQUENCE CHARACTERISTICS:	18

(A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359: CCTTGCGGTT TTGG	14
(2) INFORMATION FOR SEQ ID NO:1360: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360: CTGTGGGCCC TTTG	14
(2) INFORMATION FOR SEQ ID NO:1361: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361: GGGCCTTGGC TTCTGGCTC	19
(2) INFORMATION FOR SEQ ID NO:1362: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO:1362:	23
CATCCACATG ATTGCTTAGA TTTGTGCTGT ATCTCTCAGG ATTATCACTG ATTACACATC CAACCAGTGC CAGCCAAAAG GATGCCCTGA GGCAAAGGGT TTCCATCTTG AGGCAAATTT GAGGA	60 120 125
(2) INFORMATION FOR SEQ ID NO:1363: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:	
CBTCCBCBTG BTTGCTTBGB TTTGTGCTGT BTCTCTCBGG BTTBTCBCTG BTTBCBCBTC CBBCCBGTGC CBGCCBBBBG GBTGCCCTGB GGCBBBGGGT TTCCBTCTTG BGGCBBBTTT GBGGB	60 120 125
(2) INFORMATION FOR SEQ ID NO:1364: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364: CGTGGTCGCT CCGC	
<pre>(2) INFORMATION FOR SEQ ID NO:1365: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365.</pre>	14
GTTTCTCTGG TTCCTCCG (2) INFORMATION FOR SEQ ID NO:1366: (i) SEQUENCE CHARACTERISTICS:	· 18

(A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366: GTCCCGCGGG GTGCTG	16
(2) INFORMATION FOR SEQ ID NO:1367: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367: TCTGGTCGCT GTCGT	15
 (2) INFORMATION FOR SEQ ID NO:1368: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368: 	
GGCTTGGGTC TCCGGGCG (2) INFORMATION FOR SEQ ID NO:1369: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	18
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369: GTTTCCTTCC TTTTCCGC (2) INFORMATION FOR SEQ ID NO:1370: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid	18
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370: GTCCTGTCGT GGCGCCTGGG GCTC (2) INFORMATION FOR SEQ ID NO:1371: (i) SEQUENCE CHARACTERISTICS:	24
(A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371: TTCTTTTGTG GGCT	14
(2) INFORMATION FOR SEQ ID NO:1372: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372: CTTTGGTGGC TGTGGCTG	18
 (2) INFORMATION FOR SEQ ID NO:1373: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373: 	

TGGTCTCTGT GGTTG	15
(2) INFORMATION FOR SEQ ID NO:1374: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374: CTGCCCTGGG TCTGG	15
(2) INFORMATION FOR SEQ ID NO:1375: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375: GGGTGTGGCC TTGGGGCCGT CCTCTGGCTC CTCCTCGTGG GCCCCC	46
(2) INFORMATION FOR SEQ ID NO:1376: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376: GGGCTAAGAT GATCCACATC ACTACCACGT TGCCCACCAC AGAGGTCACC ACAATGACCG TGTAGGCAGC TGCCCAAAGG ACAATTTGCC AGGCTGGTTG CACGAACTGA TTGGGTTCCG AGGTGTTAGT GGAGATGTTT GGGGAGAGGT CTGAGTCCAC CGGGAGGACG TTATCCATTT CGAAGCTAGG CGGTAAAGCC CTACTATCTG TACACAACCC CCCTCTGCAG CAGAGTCCTG TCGTGGCGCCC TGGGGCTCAG GGTCC	60 120 180 240 265
(2) INFORMATION FOR SEQ ID NO:1377: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377: GGGCTBBGBT GBTCCBCBTC BCTBCCBCGT TGCCCBCCBC BGBGGTCBCC BCBBTGBCCG TGTBGGCBC TGCCCBBBGG BCBBTTTGCC BGGCTGGTTG CBCGBBCTGB TTGGGTTCCG BGGTGTTBGT GGBGBTGTTT GGGGBGBGGT CTGBGTCCBC CGGGBGGBCG TTBTCCBTTT CGBBGCTBGG CGGTBBBGCC CTBCTBTCTG TBCBCBBCCC CCCTCTGCBG CBGBGTCCTG TCGTGGCGCC TGGGGCTCBG GGTCC	60 120 180 240 265
(2) INFORMATION FOR SEQ ID NO:1378: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378: CGTTTTCTTC TCTC	14
(2) INFORMATION FOR SEQ ID NO:1379: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379: GCTGGTTTTC CTTTCC (2) INFORMATION FOR SEQ ID NO:1380:	16
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380: TGGCAGTGGG TGGGGGTGGG GGTGGGGTGG C	31
(2) INFORMATION FOR SEQ ID NO:1381:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 23 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381: TTCCTTGTTC CTGGGGGTGT CCT	23
(2) INFORMATION FOR SEQ ID NO:1382:(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 18 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382: CTTGCTCTGG GCTTTTCT	
	18
(2) INFORMATION FOR SEQ ID NO:1383:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383: CCCCTTTTCC TTCC	14
(2) INFORMATION FOR SEQ ID NO:1384:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384: TGTCTGTTTT CCTGGGG	17
(2) INFORMATION FOR SEQ ID NO:1385: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385: CTCTCCTCTG TCTCTGTGT	19
 (2) INFORMATION FOR SEQ ID NO:1386: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:	
CCTTGCCCTG GCCC	14
(2) INFORMATION FOR SEQ ID NO:1387:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 22 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387: TCTTCCCTCT CCTGTCTCCT GT	22

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<pre>(2) INFORMATION FOR SEQ ID NO:1388: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:</pre>	
CCCTGTGTTC CGCCC	15
(2) INFORMATION FOR SEQ ID NO:1389: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389: GTCTTCCCTC TCCTG	15
 (2) INFORMATION FOR SEQ ID NO:1390: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390: 	
ACCTCCTTTT CCTCCG	16
(2) INFORMATION FOR SEQ ID NO:1391: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391: CTGGGTGGGG CCCTG	15
(2) INFORMATION FOR SEQ ID NO:1392: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392: CCTGTTCTCT GCTCCC	16
(2) INFORMATION FOR SEQ ID NO:1393: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393: TGGCTTGGGG TTTCTTCTG	19
 (2) INFORMATION FOR SEQ ID NO:1394: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394: 	
TGTGTCTTCT TCCTCTGTT	19
(2) INFORMATION FOR SEQ ID NO:1395: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: public acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395: GGCTGGCTTT CTCCTTC	17
(2) INFORMATION FOR SEQ ID NO:1396: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396: TTTTGTCTTC CTGGG	15
(2) INFORMATION FOR SEQ ID NO:1397: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397: TGCCCCTTCT TCCTTTCTTG GG	22
 (2) INFORMATION FOR SEQ ID NO:1398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398: 	22
(2) INFORMATION FOR SEQ ID NO:1399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399: CTGTGCGTCC GTCTGCTGG	20
(2) INFORMATION FOR SEQ ID NO:1400: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400: GGGGCCGGGG TGGCTGGGCC CTGCTTGCCG C	· 31
(2) INFORMATION FOR SEQ ID NO:1401: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401: ACGACCCCGG GCCGACCCGA G	
 (2) INFORMATION FOR SEQ ID NO:1402: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:1402: 	21
GCTCGGGGGG CTGTGTTCTG GCGCTGGTGG G	31

(2) INFORMATION FOR SEQ ID NO:1403: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403: CTTGGGCCCC TCTGGGGGGCT GGGTT	25
(2) INFORMATION FOR SEQ ID NO:1404: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404: TCCTGCTGCG CCTGGGCGCT G	21
(2) INFORMATION FOR SEQ ID NO:1405: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405: GCGTCTTGGG GTGC	14
(2) INFORMATION FOR SEQ ID NO:1406: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406: GGGGCCGGGGG GGCCGGGGG	19
(2) INFORMATION FOR SEQ ID NO:1407: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407: GCCGCTGTTC GTGGGCCTGG G	21
(2) INFORMATION FOR SEQ ID NO:1408: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408: GGTGCCTGTG GCTGCC	16
(2) INFORMATION FOR SEQ ID NO:1409: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409: GGTTGCCCCG GTTGGTGGC	
(2) INFORMATION FOR SEQ ID NO:1410: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	19

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410: GCCGTCCTGC TGCCGGT	17
(2) INFORMATION FOR SEQ ID NO:1411: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411: CGTTGGCTGG GTCCCCCCGC	20
(2) INFORMATION FOR SEQ ID NO:1412: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412: CCGTTTCCTG GGGTCC	16
(2) INFORMATION FOR SEQ ID NO:1413: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413: GCGTGGGGTG CTCC	14
(2) INFORMATION FOR SEQ ID NO:1414: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414: GGTTCCTCGT GCCG	14
<pre>(2) INFORMATION FOR SEQ ID NO:1415: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:1415:</pre>	
CTGCTGCCTT GTCTTTCC	18
GGCCGTGGCG GCGTGGTGT CC (2) INFORMATION FOR SEQ ID NO:1417: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	:2
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417: GCCCCCCCTG GCCTTCTGCT C (2) INFORMATION FOR SEQ ID NO:1418:	1

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418: GGGGTCTGGC TGGT	14
(2) INFORMATION FOR SEQ ID NO:1419: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419: TGCCGGTGCC CTTGGCGGC	19
(2) INFORMATION FOR SEQ ID NO:1420: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420: GGTCTTCTTC CTGGTG	16
(2) INFORMATION FOR SEQ ID NO:1421: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421: GCTCTGGGCC CGGCCGGTCT CGG	23
(2) INFORMATION FOR SEQ ID NO:1422: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422: GCGTCTCGTG TTCG	14
(2) INFORMATION FOR SEQ ID NO:1423: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423: CTCTTGTGCT GTTCCGGCCG	20
(2) INFORMATION FOR SEQ ID NO:1424: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:	20
CTCCTTCCTC TTCCGCCGCC (2) INFORMATION FOR SEQ ID NO:1425: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	20

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425: GCCGCTCCCC GCCC	14
(2) INFORMATION FOR SEQ ID NO:1426: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426: GCTCGTCGCC CTGGCCC	17
(2) INFORMATION FOR SEQ ID NO:1427: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427: GGCCTCCTCC TGGCCGC	17
(2) INFORMATION FOR SEQ ID NO:1428: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428: TGTCTCGGGC GGCGGCCTTG GC	22
(2) INFORMATION FOR SEQ ID NO:1429: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429: GCTCCGTTTG GGGCTG	16
(2) INFORMATION FOR SEQ ID NO:1430: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430: CCTCTGGCGC TTCC	14
(2) INFORMATION FOR SEQ ID NO:1431: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431: GGCCCTCGGC CTGGGCGCTC	20
(2) INFORMATION FOR SEQ ID NO:1432: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432: FCTTCCGCCT GTGC	14
(2) INFORMATION FOR SEQ ID NO:1433:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433: TGGTGGCCCT CGTGG	15
(2) INFORMATION FOR SEQ ID NO:1434: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434: GCCCCTCCTG GCCTCCGGTG TCC	23
(2) INFORMATION FOR SEQ ID NO:1435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435: TGTGGTCCCC CGGCTGGT	18
(2) INFORMATION FOR SEQ ID NO:1436: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436: GGCCGGGCCG GTTGGGCGGG C	21
(2) INFORMATION FOR SEQ ID NO:1437: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437: GTGGGCGCCCG GCGGGTCCTC C	21
(2) INFORMATION FOR SEQ ID NO:1438: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438: GGGCTGCCCT TCTCC	15
(2) INFORMATION FOR SEQ ID NO:1439: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439: GCCGGGGGGTC CCGC	14
 (2) INFORMATION FOR SEQ ID NO:1440: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440: 	

GCTCCTGCTG TTCCCTGGGC TCTTCTGCC	29
(2) INFORMATION FOR SEQ ID NO:1441: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441: TCTCTCCTGG GTGGGTGCTG GGTGCCG	27
(2) INFORMATION FOR SEQ ID NO:1442: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442: GGGTCTCCGG GCTTG	15
(2) INFORMATION FOR SEQ ID NO:1443: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443: CCCCGGGGCTG CTGGGCGTTC TGC	23
(2) INFORMATION FOR SEQ ID NO:1444: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444: GGTCTTGGGG TTGTC	15
(2) INFORMATION FOR SEQ ID NO:1445: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445: TGTGGCCCCG CTCG	14
(2) INFORMATION FOR SEQ ID NO:1446: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446: TGTCGCCCTC CGTCGCC	17
(2) INFORMATION FOR SEQ ID NO:1447: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447: CGTCGCCGGC CTCGTCC	17
(2) INFORMATION FOR SEQ ID NO:1448:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448: CCTCCTGGGT GCGC	14
(2) INFORMATION FOR SEQ ID NO:1449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449: GGCGGGCTGG TCCT	14
(2) INFORMATION FOR SEQ ID NO:1450: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450: GGCGTTTTGC TCCTTCCTGG	
 (2) INFORMATION FOR SEQ ID NO:1451: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451: 	20
(2) INFORMATION FOR SEQ ID NO:1452: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452: TTCTGCTGCT TGCTG	15
(2) INFORMATION FOR SEQ ID NO:1453: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453: CTTCTTTCCC GTCTCC	16
(2) INFORMATION FOR SEQ ID NO:1454: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454: CTTCTTTCCC GTCTCC	16
 (2) INFORMATION FOR SEQ ID NO:1455: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (×i) SEQUENCE DESCRIPTION: SEO ID NO:1455: 	10
TTTTTGCCTC TTTG	14

(2) INFORMATION FOR SEQ ID NO:1456: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456: GGTTCCTGTT GTTTCT	16
(2) INFORMATION FOR SEQ ID NO:1457: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:	10
GGCCTGCTTG GTGGCG	16
(2) INFORMATION FOR SEQ ID NO:1458: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458: GCTTGTGCGT TTCC	14
 (2) INFORMATION FOR SEQ ID NO:1459: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459: TCTCTCTTCT CTTGGGTCTC CGCTTCTCGT CCTGCC	36
(2) INFORMATION FOR SEQ ID NO:1460: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:	
TTTTCCTGTC TCTGTCGC	18
 (2) INFORMATION FOR SEQ ID NO:1461: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461: GCCGTTCCTC CTCC	14
(2) INFORMATION FOR SEQ ID NO:1462: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462: GGCGTCCTCC TGCCC	15
(2) INFORMATION FOR SEC ID NO.1463.	
(2) INFORMATION FOR SEQ ID NO:1463:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463: TGTGCTGTTT GCCTCGG	17
(2) INFORMATION FOR SEQ ID NO:1464: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464: GTGGTGCGGGG TCCC	14
(2) INFORMATION FOR SEQ ID NO:1465: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465: GGTGCTCCCC CGGC	14
(2) INFORMATION FOR SEQ ID NO:1466: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466: GGGCCGGCTG GTTGCCTGGG C	21
(2) INFORMATION FOR SEQ ID NO:1467: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467: CTGTCTGGTG GGGTGTGGGG CC	22
(2) INFORMATION FOR SEQ ID NO:1468: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468: GCTGGGTTGG GGGTGTGGTG	20
(2) INFORMATION FOR SEQ ID NO:1469: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469: GGCTCTTCTG TGGCC	15
(2) INFORMATION FOR SEQ ID NO:1470: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470: TGTGGGGCTG TTGGTG	16

(2) INFORMATION FOR SEQ ID NO:1471: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471: TCTCTGTGGG CGTGTG	16
(2) INFORMATION FOR SEQ ID NO:1472: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472: CTGGGTCTTG GGGCTTC	17
(2) INFORMATION FOR SEQ ID NO:1473: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473: CTCCCTTGTG CTGGG	15
(2) INFORMATION FOR SEQ ID NO:1474: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474: TGCGGCCTCC CCGC	14
(2) INFORMATION FOR SEQ ID NO:1475: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475: CCCCCTTCTG GGCC	14
(2) INFORMATION FOR SEQ ID NO:1476: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476: GGTGGCCTGG CTCCTTGTGG	20
(2) INFORMATION FOR SEQ ID NO:1477: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477: GCGCTTCTGG CTCTTG	`
(2) INFORMATION FOR SEQ ID NO:1478: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	16

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478: CCCTGTCCTT CTTCGCCTCG T	21
(2) INFORMATION FOR SEQ ID NO:1479: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479: GGCTGCTGGG CTGC	14
(2) INFORMATION FOR SEQ ID NO:1480: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480: GTTGGGCTTG GCCGGGG	17
(2) INFORMATION FOR SEQ ID NO:1481: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481: CTGCCCGGTG CCTCC	15
(2) INFORMATION FOR SEQ ID NO:1482: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482: TCTTGGCTGG TCCCTCGT	18
(2) INFORMATION FOR SEQ ID NO:1483: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483: TGTCCTTGGG CCCC	14
(2) INFORMATION FOR SEQ ID NO:1484: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484: GCTCCCGCTG CTCGGCCTCC GT	22
(2) INFORMATION FOR SEQ ID NO:1485: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:	.
GTTCTTTGGC CTCTTGCTCC (2) INFORMATION FOR SEQ ID NO:1486:	20

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486: GCCTGCTGTC TTGTCC	16
(2) INFORMATION FOR SEQ ID NO:1487: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:	
CGTCCCCTCC TCGCTTGCGT TTC (2) INFORMATION FOR SEQ ID NO:1488: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	23
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488: CCTCTTCCTT GTCTTCCA (2) INFORMATION FOR SEQ ID NO:1489: (i) SEQUENCE CHARACTERISTICS:	18
(A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489: GGCCTTCCTC CGCTTCCGCT GC (2) INFORMATION FOR SEQ ID NO:1490: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	22
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490: TGGGGCCCGC GCCGG	15
(2) INFORMATION FOR SEQ ID NO:1491: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:	-5
GGGGGCGCTC GGCTCCGCGG CTTCCTCCCC GG (2) INFORMATION FOR SEQ ID NO:1492: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	32
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492: CTGGGGGGTC CTGG	14
(2) INFORMATION FOR SEQ ID NO:1493:	

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493: TCTCCGGGGC CTGCGGCTCG C	21
(2) INFORMATION FOR SEQ ID NO:1494: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494: GGGCTCGGGG CTGCGTGCGC C	21
(2) INFORMATION FOR SEQ ID NO:1495: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495: GCGCGCGGCG TCCGCGGTG	19
(2) INFORMATION FOR SEQ ID NO:1496: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496: GGTGGCGCTG TCCCGCC	17
(2) INFORMATION FOR SEQ ID NO:1497: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497: GTGGTGTGTC TCCGTTCTCG TCCTGCGCCG TC	32
(2) INFORMATION FOR SEQ ID NO:1498: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498: CTGGTCTGCC CGTGG	15
(2) INFORMATION FOR SEQ ID NO:1499: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499: GGTCCTGGGC GTGGTGG	
	17

(2) INFORMATION FOR SEQ ID NO:1500: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500: GGGGCGTCTG GTGC	14
(2) INFORMATION FOR SEQ ID NO:1501: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1501: CTCGTCTGCC CCGTG	15
(2) INFORMATION FOR SEQ ID NO:1502: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1502: GGGCTTCGGG CTCGG	15
(2) INFORMATION FOR SEQ ID NO:1503: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1503: GGCTGTTCGT CCCCCCTGCC GCTCTGTGGC CTCC	34
(2) INFORMATION FOR SEQ ID NO:1504: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1504: GGGGCTCCTC GTTTTC	16
(2) INFORMATION FOR SEQ ID NO:1505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1505: GCTGCTTCGG GTGTCCTTCT C	21
(2) INFORMATION FOR SEQ ID NO:1506: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1506: GGCGTGTGGC CCCGG	15

(2) INFORMATION FOR SEQ ID NO:1507:

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 29 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1507: GTCCCGGCCC TGCTGGGCTG GGCGGGGTC	29
(2) INFORMATION FOR SEQ ID NO:1508: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1508: GCTGCCCTGG GCTTCTGGCC CGTCT	25
(2) INFORMATION FOR SEQ ID NO:1509: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1509: GGTTGTCTGT CGGT	
(2) INFORMATION FOR SEQ ID NO:1510: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1510: GCTTGTCTCG GGTTTCTGG	. 14
 (2) INFORMATION FOR SEQ ID NO:1511: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	19
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1511: CCTCTGTGCT GGGC (2) INFORMATION FOR SEQ ID NO:1512: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	14
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1512: GCTTCTCTGC CTCCTGCTCC (2) INFORMATION FOR SEQ ID NO:1513: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1513:</pre>	20
GCCCTCCTGG TGGCTC (2) INFORMATION FOR SEQ ID NO:1514: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	16

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1514: GGCTGGGGGT GCCCGTGCG	19
(2) INFORMATION FOR SEQ ID NO:1515: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1515: GGGGTGGGT TGGGGTGTT	19
(2) INFORMATION FOR SEQ ID NO:1516: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1516: TTCGGGGGTCC TCCCCTTCCC	20
(2) INFORMATION FOR SEQ ID NO:1517: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1517:	
(2) INFORMATION FOR SEQ ID NO:1518: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1518:	20
(2) INFORMATION FOR SEQ ID NO:1519: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1519:	19
TCTCCTGCTC TGGRGTCTCC TC (2) INFORMATION FOR SEQ ID NO:1520: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1520:	22
(2) INFORMATION FOR SEQ ID NO:1521: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:1521:	18
GTGTTGTCTG TGGGTGTCC (2) INFORMATION FOR SEQ ID NO:1522: (i) SEQUENCE CHARACTERISTICS:	19

(A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1522: GTTTCGCTCT TGTTGCCC	18
(2) INFORMATION FOR SEQ ID NO:1523: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1523: TGGGCCCTTC CCTGCTGG	18
(2) INFORMATION FOR SEQ ID NO:1524: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1524: GGGGGAGTTT CATCTTGG	18
(2) INFORMATION FOR SEQ ID NO:1525: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1525: GGGGGGBGTTT CBTCTTGGCT TT	22
(2) INFORMATION FOR SEQ ID NO:1526: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1526: GGGGGGBGTTT CBTCTTGGCT T	21
(2) INFORMATION FOR SEQ ID NO:1527: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1527: GGGGGGBGTTT CBTCTTGGCT	20
(2) INFORMATION FOR SEQ ID NO:1528: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1528: GGGGGGGGTTT CBTCTTGGC	19
 (2) INFORMATION FOR SEQ ID NO:1529: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1529: 	

GGGGGBGTTT CBTCTTGG	18
(2) INFORMATION FOR SEQ ID NO:1530: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1530: GGGGGGBGTTT CBTCTTG	17
(2) INFORMATION FOR SEQ ID NO:1531: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1531: GGGGGGBGTTT CBTCTT	16
(2) INFORMATION FOR SEQ ID NO:1532: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1532: GGGGGGGGTTT CBTCT	
(2) INFORMATION FOR SEQ ID NO:1533: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1533:	15
(2) INFORMATION FOR SEQ ID NO:1534: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	14
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1534: GGGGGBGTTT CBT (2) INFORMATION FOR SEQ ID NO:1535: (i) SEQUENCE CHARACTERISTICS:	13
(A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1535: GGGGGGBGTTT CB	12
(2) INFORMATION FOR SEQ ID NO:1536: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1536: GGGGGBGTTTC BTCTTGGCTT T (2) INFORMATION FOR SEQ ID NO:1537:	21
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1537: GGGGBGTTTC BTCTTGGCTT	20
(2) INFORMATION FOR SEQ ID NO:1538: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1538: GGGGGBGTTTC BTCTTGGCT	19
(2) INFORMATION FOR SEQ ID NO:1539: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1539: GGGGBGTTTC BTCTTGGC	18
(2) INFORMATION FOR SEQ ID NO:1540: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1540: GGGGGBGTTTC BTCTTGG	17
(2) INFORMATION FOR SEQ ID NO:1541: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1541: GGGGGBGTTTC BTCTTG	16
(2) INFORMATION FOR SEQ ID NO:1542: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1542: GGGGGBGTTTC BTCTT	15
(2) INFORMATION FOR SEQ ID NO:1543: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1543:	13
(2) INFORMATION FOR SEQ ID NO:1544: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	14
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1544: GGGGBGTTTC BTC	13

(2) INFORMATION FOR SEQ ID NO:1545: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1545: GGGGBGTTTC BT	12
(2) INFORMATION FOR SEQ ID NO:1546: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1546: GGGBGTTTCB TCTTGGCTTT	20
(2) INFORMATION FOR SEQ ID NO:1547: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1547: GGGBGTTTCB TCTTGGCTT	19
(2) INFORMATION FOR SEQ ID NO:1548: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1548: GGGBGTTTCB TCTTGGCT	18
(2) INFORMATION FOR SEQ ID NO:1549: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1549: GGGBGTTTCB TCTTGGC	17
 (2) INFORMATION FOR SEQ ID NO:1550: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1550: 	
GGGBGTTTCB TCTTGG (2) INFORMATION FOR SEQ ID NO:1551: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1551:	16
GGGBGTTTCB TCTTG (2) INFORMATION FOR SEQ ID NO:1552: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs	15

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1552:	
GGGBGTTTCB TCTT	14
 (2) INFORMATION FOR SEQ ID NO:1553: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1553:	1.0
GGGBGTTTCB TCT	13
 (2) INFORMATION FOR SEQ ID NO:1554: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1554:	10
GGGBGTTTCB TC	12
(2) INFORMATION FOR SEQ ID NO:1555: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1555: GGBGTTTCBT CTTGGCTTT	19
(2) INFORMATION FOR SEQ ID NO:1556: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1556:	10
GGBGTTTCBT CTTGGCTT	18
 (2) INFORMATION FOR SEQ ID NO:1557: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1557: 	
GGBGTTTCBT CTTGGCT	17
(2) INFORMATION FOR SEQ ID NO:1558: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1558: GGBGTTTCBT CTTGGC	16
 (2) INFORMATION FOR SEQ ID NO:1559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	- y
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1559: GGBGTTTCBT CTTGG	15

(2) INFORMATION FOR SEQ ID NO:1560: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1560: GGBGTTTCBT CTTG	14
(2) INFORMATION FOR SEQ ID NO:1561: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1561: GGBGTTTCBT CTT	13
(2) INFORMATION FOR SEQ ID NO:1562: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1562: GGBGTTTCBT CT	12
(2) INFORMATION FOR SEQ ID NO:1563: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1563: GBGTTTCBTC TTGGCTTT	18
(2) INFORMATION FOR SEQ ID NO:1564: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1564: GBGTTTCBTC TTGGCTT	17
(2) INFORMATION FOR SEQ ID NO:1565: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1565: GBGTTTCBTC TTGGCT	16
(2) INFORMATION FOR SEQ ID NO:1566: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1566: GBGTTTCBTC TTGGC	15
(2) INFORMATION FOR SEQ ID NO:1567: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid	13

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1567: GBGTTTCBTC TTGG (2) INFORMATION FOR SEQ ID NO:1568: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1568: GBGTTTCBTC TTG	14
(2) INFORMATION FOR SEQ ID NO:1569: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1569: GBGTTTCBTC TT	12
(2) INFORMATION FOR SEQ ID NO:1570: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1570: BGTTTCBTCT TGGCTTT	17
(2) INFORMATION FOR SEQ ID NO:1571: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1571: BGTTTCBTCT TGGCTT	16
(2) INFORMATION FOR SEQ ID NO:1572: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1572: BGTTTCBTCT TGGCTT	16
(2) INFORMATION FOR SEQ ID NO:1573: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1573: BGTTTCBTCT TGGCT	15
(2) INFORMATION FOR SEQ ID NO:1574: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1574: BGTTTCBTCT TGGC	14

(2) INFORMATION FOR SEQ ID NO:1575:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1575: BGTTTCBTCT TGG	13
(2) INFORMATION FOR SEQ ID NO:1576: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1576: BGTTTCBTCT TG	12
(2) INFORMATION FOR SEQ ID NO:1577: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1577: GTTTCBTCTT GGCTTT	16
(2) INFORMATION FOR SEQ ID NO:1578: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1578: GTTTCBTCTT GGCTT	15
(2) INFORMATION FOR SEQ ID NO:1579: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1579: GTTTCBTCTT GGCT	14
(2) INFORMATION FOR SEQ ID NO:1580: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1580: GTTTCBTCTT GGC	13
(2) INFORMATION FOR SEQ ID NO:1581: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1581: GTTTCBTCTT GG	12
(2) INFORMATION FOR SEQ ID NO:1582: (i) SEQUENCE CHARACTERISTICS: . (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1582: TTTCBTCTTG GCTTT	15
(2) INFORMATION FOR SEQ ID NO:1583: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1583: TTTCBTCTTG GCTT	14
(2) INFORMATION FOR SEQ ID NO:1584: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1584: TTTCBTCTTG GCT	13
(2) INFORMATION FOR SEQ ID NO:1585: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1585: TTTCBTCTTG GC	12
(2) INFORMATION FOR SEQ ID NO:1586: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1586: TTCBTCTTGG CTTT	14
(2) INFORMATION FOR SEQ ID NO:1587: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1587: TTCBTCTTGG CTT	13
(2) INFORMATION FOR SEQ ID NO:1588: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1588: TTCBTCTTGG CT	12
(2) INFORMATION FOR SEQ ID NO:1589: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1589: TCBTCTTGGC TTT	13
(2) INFORMATION FOR SEQ ID NO:1590: (i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1590: TCBTCTTGGC TT	12
(2) INFORMATION FOR SEQ ID NO:1591: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1591: GGGGGGBGTTT CBTCTTGGCT TT	22
(2) INFORMATION FOR SEQ ID NO:1592: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1592: GGGGBGTTTC BTCTTGGCTT T	21
(2) INFORMATION FOR SEQ ID NO:1593: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1593: GGGBGTTTCB TCTTGGCTTT	20
(2) INFORMATION FOR SEQ ID NO:1594: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1594: GGBGTTTCBT CTTGGCTTT	19
(2) INFORMATION FOR SEQ ID NO:1595: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1595: GBGTTTCBTC TTGGCTTT	18
(2) INFORMATION FOR SEQ ID NO:1596: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1596: BGTTTCBTCT TGGCTTT	17
(2) INFORMATION FOR SEQ ID NO:1597: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

GTTTCBTCTT GGCTTT	16
(2) INFORMATION FOR SEQ ID NO:1598: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1598: TTTCBTCTTG GCTTT	15
(2) INFORMATION FOR SEQ ID NO:1599: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1599: TTCBTCTTGG CTTT	14
(2) INFORMATION FOR SEQ ID NO:1600: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1600: TCBTCTTGGC TTT	13
(2) INFORMATION FOR SEQ ID NO:1601: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1601: CBTCTTGGCT TT	12
(2) INFORMATION FOR SEQ ID NO:1602: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1602: GGGGGGBGTTT CBTCTTGGCT T	21
(2) INFORMATION FOR SEQ ID NO:1603: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1603: GGGGGBGTTTC BTCTTGGCTT	20
(2) INFORMATION FOR SEQ ID NO:1604: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1604: GGGBGTTTCB TCTTGGCTT	19
(2) INFORMATION FOR SEQ ID NO:1605: (i) SEOUENCE CHARACTERISTICS:	

(A) LENGTH: 18 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1605: GGBGTTTCBT CTTGGCTT	18
(2) INFORMATION FOR SEQ ID NO:1606: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1606: GBGTTTCBTC TTGGCTT	17
(2) INFORMATION FOR SEQ ID NO:1607: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1607: BGTTTCBTCT TGGCTT	16
(2) INFORMATION FOR SEQ ID NO:1608: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1608: GTTTCBTCTT GGCTT	15
(2) INFORMATION FOR SEQ ID NO:1609: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1609: TTTCBTCTTG GCTT	14
(2) INFORMATION FOR SEQ ID NO:1610: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1610: TTCBTCTTGG CTT	13
 (2) INFORMATION FOR SEQ ID NO:1611: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1611: 	13
(2) INFORMATION FOR SEQ ID NO:1612: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	12
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1612: GGGGGBGTTT CBTCTTGGCT	20

(2) INFORMATION FOR SEQ ID NO:1613: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1613: GGGGGGGTTTC BTCTTGGCT	19
(2) INFORMATION FOR SEQ ID NO:1614: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1614: GGGBGTTTCB TCTTGGCT	18
(2) INFORMATION FOR SEQ ID NO:1615: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1615: GGBGTTTCBT CTTGGCT	17
(2) INFORMATION FOR SEQ ID NO:1616: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1616: GBGTTTCBTC TTGGCT	16
(2) INFORMATION FOR SEQ ID NO:1617: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1617: BGTTTCBTCT TGGCT	15
(2) INFORMATION FOR SEQ ID NO:1618: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1618: GTTTCBTCTT GGCT	14
(2) INFORMATION FOR SEQ ID NO:1619: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1619: TTTCBTCTTG GCT	13
(2) INFORMATION FOR SEQ ID NO:1620:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 12 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1620: TTCBTCTTGG CT	12
(2) INFORMATION FOR SEQ ID NO:1621: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1621: GGGGGGBGTTT CBTCTTGGC	19
(2) INFORMATION FOR SEQ ID NO:1622: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1622: GGGGBGTTTC BTCTTGGC	18
(2) INFORMATION FOR SEQ ID NO:1623: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1623: GGGBGTTTCB TCTTGGC	17
(2) INFORMATION FOR SEQ ID NO:1624: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1624: GGBGTTTCBT CTTGGC	16
(2) INFORMATION FOR SEQ ID NO:1625: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1625: GBGTTTCBTC TTGGC	15
(2) INFORMATION FOR SEQ ID NO:1626: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1626: BGTTTCBTCT TGGC	14
(2) INFORMATION FOR SEQ ID NO:1627: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1627: GTTTCBTCTT GGC	13
G1110D1011 000	13

(2) INFORMATION FOR SEQ ID NO:1628: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1628: TTTCBTCTTG GC	12
(2) INFORMATION FOR SEQ ID NO:1629: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1629: GGGGGGBGTTT CBTCTTGG	
(2) INFORMATION FOR SEQ ID NO:1630: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1630: GGGGGGGTTTC BTCTTGG	18
(2) INFORMATION FOR SEQ ID NO:1631: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1631: GGGBGTTTCB TCTTGG	16
(2) INFORMATION FOR SEQ ID NO:1632: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1632: GGBGTTTCBT CTTGG	15
(2) INFORMATION FOR SEQ ID NO:1633: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1633: GBGTTTCBTC TTGG	14
(2) INFORMATION FOR SEQ ID NO:1634: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1634: BGTTTCBTCT TGG	
(2) INFORMATION FOR SEQ ID NO:1635: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	13

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1635: GTTTCBTCTT GG	12
(2) INFORMATION FOR SEQ ID NO:1636: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1636: GGGGGGBGTTT CBTCTTG	17
 (2) INFORMATION FOR SEQ ID NO:1637: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1637: GGGGBGTTTC BTCTTG	16
 (2) INFORMATION FOR SEQ ID NO:1638: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1638: GGGBGTTTCB TCTTG	15
(2) INFORMATION FOR SEQ ID NO:1639: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1639: GGBGTTTCBT CTTG	14
 (2) INFORMATION FOR SEQ ID NO:1640: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1640: GBGTTTCBTC TTG	13
(2) INFORMATION FOR SEQ ID NO:1641: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1641: BGTTTCBTCT TG	12
(2) INFORMATION FOR SEQ ID NO:1642: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:1642:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1642: GGGGGBGTTT CBTCTT	16

(2) INFORMATION FOR SEQ ID NO:1643:

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1643: GGGGBGTTTC BTCTT 	15
(2) INFORMATION FOR SEQ ID NO:1644: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1644: GGGBGTTTCB TCTT	14
(2) INFORMATION FOR SEQ ID NO:1645: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1645: GGGBGTTTCB TCTT	14
(2) INFORMATION FOR SEQ ID NO:1646: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1646: GGBGTTTCBT CTT	13
(2) INFORMATION FOR SEQ ID NO:1647: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1647: GBGTTTCBTC TT	12
(2) INFORMATION FOR SEQ ID NO:1648: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1648: GGGGGGBGTTT CBTCT	15
(2) INFORMATION FOR SEQ ID NO:1649: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1649: GGGGGBGTTTC BTCT	14
 (2) INFORMATION FOR SEQ ID NO:1650: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	





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GTGCTCBTGG TGTCCTTTCC	20
(2) INFORMATION FOR SEQ ID NO:1666: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1666: GCCCTGGGGC CCCCCTGTCT TCTTGGGG	28
(2) INFORMATION FOR SEQ ID NO:1667: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1667: CCTCTTCCCT CTGGGGGCCG	20
(2) INFORMATION FOR SEQ ID NO:1668: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1668: TCTCTCTCCCC TCTCTTGCGT CTCTC	25
(2) INFORMATION FOR SEQ ID NO:1669: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1669: TCTTTCTCTCT TCTCTCTCC CC	22
(2) INFORMATION FOR SEQ ID NO:1670: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1670: TTTCCCGCTC TTTCTGTCTC	20
(2) INFORMATION FOR SEQ ID NO:1671: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1671: GGTGTCTGGT TTTCTCTCTC C	21
(2) INFORMATION FOR SEQ ID NO:1672: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1672: GCTGGCTGCC TGTCTGGCCT GCGCTCTT	28
(2) INFORMATION FOR SEQ ID NO:1673:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 base pairs	20

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1673: GGCCTGTGCT GTTCCTCC	18
(2) INFORMATION FOR SEQ ID NO:1674: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1674: TCCGGTTCCT GTCCTCTCT TCTGTC	26
(2) INFORMATION FOR SEQ ID NO:1675: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1675: GCCCCCTCTG GGGTCTCCCT CTGGC	25
(2) INFORMATION FOR SEQ ID NO:1676: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1676: GTGGTGGTCT TGTTGCTT	18
(2) INFORMATION FOR SEQ ID NO:1677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1677: GGGCTGGGCT CCGTGTCTC	19
(2) INFORMATION FOR SEQ ID NO:1678: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1678: CBGTGCTCBT GGTGTCC	17
(2) INFORMATION FOR SEQ ID NO:1679: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1679: GCTGBGGGBG CGTCTGCTGG C	21
 (2) INFORMATION FOR SEQ ID NO:1680: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1680: 	
TGCTTTCTT TTCTGGGCCT CTGTGGTCTG TTTTTTTCTG GCCCTGCTGG GGCGCTCTCC	60

GCCGCCCGCC TGGCTCCCGG BGCCCBTGBT GGGCBTGCCG TGGTTCTTGC CCTCCTTTGG CTGCCGTGCC CGCTCCCCGG CCTCCTGGCG GGTGGCCGTT GGGCCCGTGT TCCCCTGGGG CCTGGGGCTC CCTTCTCTCG CCCTTCTTGC TGGGCCTCTG CTGCTGCTGG TGCTGTGGCC CCCGTACACC GAGGAGCCCA TGATGGGCAT GCCACAGACG ACAGGCGTBC BCCGBGGBGC CCBTGBTGGG CBTGCCBCBG BCGBCBGCC	120 180 240 300 329
 (2) INFORMATION FOR SEQ ID NO:1681: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1681: 	
CTGGGCCTC	9
 (2) INFORMATION FOR SEQ ID NO:1682: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1682: GCCGCCCGCC TG	12
 (2) INFORMATION FOR SEQ ID NO:1683: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1683: GCCCGCTCCC CGGC	14
(2) INFORMATION FOR SEQ ID NO:1684: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1684: CBCCGBGGBG CCC	13
(2) INFORMATION FOR SEQ ID NO:1685: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1685: GGCGCCGTGC CGCGTCTTGG TGGCGGCGGG TTCGCGCCCG CGCGGGGCCC CTCCGGTCCG TTCGCGCCCG CGCGGGCCC CTCCGGTCCC GGGTCGGGC CCCCTCGGGG CTGGGGCGCT GGTGCCGGG CCGCGCCTCC GCCTGCCGCT TCTGGCTGG	60 120 180 240 300 304
 (2) INFORMATION FOR SEQ ID NO:1686: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1686: 	
GCGCGTCCTG	10
(2) INFORMATION FOR SEQ ID NO:1687:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 12 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1687: GCTGGGCCCC GG	. 12
(2) INFORMATION FOR SEQ ID NO:1688: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1688: CGGGTCGGGG CCCCCC	16
(2) INFORMATION FOR SEQ ID NO:1689: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1689: CGCGCCCCGCG	
(2) INFORMATION FOR SEQ ID NO:1690: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1600:	10
ACAGAGCAGT GCTGTTGTTG GGCATCTTGC CTTCCCAGGG BCBGBGCBTG CTGTTGTTGG GCBTCTTGCC TTCCCBGGGC CCTTTTCTGG TGGGGTGGTG CTGTTGTTGG GCTTCCTCT GTTCCCBCBG BGCBGTGCTG TTGTTGGGCB TCTTGCCTTC CCBGGGCCCT TTTCTGGTGG GGTGGTGCTG TTGTTGGGCT TCTTCTGTT CCC	60 120 180 213
(2) INFORMATION FOR SEQ ID NO:1691: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1691: GBGCBTGC	
(2) INFORMATION FOR SEQ ID NO:1692: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1692:	8
(2) INFORMATION FOR SEQ ID NO:1693: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	9
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1693: TGCCTTCCCB GGG (2) INFORMATION FOR SEO ID NO:1694.	13
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1694: TTTCCCCTGG GTCTTCCCTC CTGCTCTTTT TTCATTTGCT CTCCTATTAC TTTCTGTGTC CATTTTTCA TTAACCGAGC TGTBTTTGCT CTCCTBTTBC TTTCTGTGTC CBTTTTTCB TTBBCCGBGC TGT	60 120 133
(2) INFORMATION FOR SEQ ID NO:1695: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1695: CCCCTGGG	8
(2) INFORMATION FOR SEQ ID NO:1696: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1696: GCTCTCCTBT T	11
(2) INFORMATION FOR SEQ ID NO:1697: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1697: CBTTBBCCGB GCTG	14
(2) INFORMATION FOR SEQ ID NO:1698: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 299 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1698: GCCTGTGTCT GTCCTCCTGC TTCGTTCCTC TCGTTCCTGC TTGGTGCCCT TGCCGGTCCT GCTCCTCCGG GCTGTGGGTC GTGGCCCTGG CTCCGCTGGT TGGCCTTCGC TGGCTGCCTCGT TTGGTTGGT CTCTTGGTTCCTC CCATGGCGT CCTCTTGGA TTGCCCCCT TTGGGTTGGT CTCTGAATAT TGACCTTCCT CCATGGCGT CCTGCTTGGA	60 120 180 240
TTCTCCCGAT CTCTGBBTBT TGBCCTTCCT CCBTGCGGT CCTGCTTGGA (2) INFORMATION FOR SEQ ID NO:1699: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1699: GTCCTCCT	299
(2) INFORMATION FOR SEQ ID NO:1700: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1700: TGTGTCTGTC CTCC	14
(2) INFORMATION FOR SEQ ID NO:1701:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 11 base pairs(B) TYPE: nucleic acid	

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(C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1701:
 GTGGCCCTGG C
                                                                         11
           (2) INFORMATION FOR SEQ ID NO:1702:
        (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 11 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1702:
 CGTGGTTGGG G
                                                                         11
          (2) INFORMATION FOR SEQ ID NO:1703:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 16 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1703:
 TCTCTGBBTB TTGBCC
                                                                        16
          (2) INFORMATION FOR SEQ ID NO:1704:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 378 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1704:
GCCTTTCCTG GTTCTTGT TGTTTTTGG GTTTGGCTTA CAGTAGAGTA GGGGATTCCA
TGGCAGGAGC CATCTTCTTC ATGGACTCCT TCAAGGAGAC CTTAGGTTTC TGAGGGACTG
                                                                        60
CTAACACGCC ATCTGGAGCB CBGTBGBGTB GGGGBTTCCB TGGCBGGBGC CBTCTTCTTC
                                                                       120
                                                                       180
BTGGBCTCCT TCBBGGBGBC CTTBGGTTTC TGBGGGBCTG CTBBCBCGCC BTCTGGBGCG
                                                                       240
GGCBGGBGCC BTCTTCTTCB TGGBCTCCTT CBBGGBGBCC TTBGGTTTCT GBGGGBCTGC
                                                                       300
                                                                       360
TBBCBCGCCB TCTGGBGC
                                                                       378
          (2) INFORMATION FOR SEQ ID NO:1705:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 8 base pairs
         (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1705:
TGGBCTCC
                                                                         8
         (2) INFORMATION FOR SEQ ID NO:1706:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 9 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1706:
CCBTCTGGB
                                                                        9
         (2) INFORMATION FOR SEQ ID NO:1707:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 11 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1707:
CTGCTBBCBC G
                                                                       11
         (2) INFORMATION FOR SEQ ID NO:1708:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 14 base pairs
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(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1708:	
GTTTTTGGGG TTTG	1.4
(0) 707000	14
(2) INFORMATION FOR SEQ ID NO:1709:(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 279 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: Genomic DNA	
(xi) SEQUENCE DESCRIPTION: SEC ID NO.1700.	
GCCTGTGTCT GTCCTCCTGC TTCGTTCCTC TCGTTCCTGC TTGGTGCCCT TGCCGGTCCT GCTCCTCCGG GCTGTGGGTC CTCGCCCTGG CTCCGCCTGG TGGGCTCCCC TGGCCTTCGC	60
IGGCIGGCGG CGTGCCCCBG BBCGBGBCCC GGBCCGBCBC GCCCTCCTTC CCCCTTCCTTC	120
CIGCOLOGI TIGGGIGGCG ATCTCTGAAT ATTGACCTCTTC CATCCCCCTC CTCCTTTCCTC	180 240
BTCTCTGBBT BTTGBCCTTC CBTGGCGGTC CTGCTTGGB	279
(2) INFORMATION FOR SEQ ID NO:1710:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 291 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1710: GCCTGTGTCT GTCCTCCTGC TTCGTTCCTC TCGTTCCTGC TTGGTGCCCT TGCCGGTCCT	
GCICCICCG GCTGTGGGTC CTCGCCCTGG CTCCGCCTCC TCCCCCC TCCCCCTTCCC	60 120
TOGGT GGCGG CGTGCCCCBG BBCGRGBCCC GGRCCBCBC CCCCCCCCCCC	180
CTGCCTCCGT TTGGGTGGCG ATCTCTGAAT ATTGACCTTC CATGGCGGTC CTGCTTGGAG BTCTCTGBBT BTTGBCCTTC CBTGGCGGTC CTGCTTGGBT CGTTCCTCTC G	240
	291
(2) INFORMATION FOR SEQ ID NO:1711:(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 10 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEO ID NO:1711.	
BGBBCGBGBC	10
(2) INFORMATION FOR SEQ ID NO:1712:	
(1) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 10 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1712:	
	10
(2) INFORMATION FOR SEQ ID NO:1713:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 171 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1713:	
TCTCCCTTGG GCTCTGGCTC CTTCTCTCTC TCTCCCTCTC TCTCTCTC	60
TOTAL TOTAL TOTAL TOTAL TOTAL CONTROL TO THE CONTRO	120
GCTCTGTCCC TCTCTCTG TBCTCCTCBG GCTCCBTCBT CTCCCTTGGG C	171
(2) INFORMATION FOR SEQ ID NO:1714:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 9 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1714: GGCTCTGGC	9
(2) INFORMATION FOR SEQ ID NO:1715: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1715:	_
CCCTTGG	7
(2) INFORMATION FOR SEQ ID NO:1716: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1716: TTTGTTCTTC C	11
(2) INFORMATION FOR SEQ ID NO:1717:	11
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1717:	
CTTGCTCCTG GGGGCCTCCT GGTCCCTCCG GGTGTTCCCG GCGGGCCTGG CCTGGGGCBG GGGCCGCGTB GGCGCGGCTC GCCBGGBCGG GCBGCGCCBG CBGCBGCBGB TTCBGCBTCC TGG	60 120 123
 (2) INFORMATION FOR SEQ ID NO:1718: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1718: 	
GCTCCTGGGG GCCT	14
 (2) INFORMATION FOR SEQ ID NO:1719: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1719: CGTBGGCGC	9
 (2) INFORMATION FOR SEQ ID NO:1720: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1720: TGGCCTGGGG	10
 (2) INFORMATION FOR SEQ ID NO:1721: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1721: 	
CTTGCTCCTG GGGGCCTCCT GGTCCCTCTG GCTGTTCCCG GCCCTGGBCT GGGGCBGGGG CCGCGTBGGC GCGCCTCGCC BGGBCGGCCB GCGCCBGCBG CBGCBGCTC BGCBTCCTGG	60 120

CCBCGGBBTT CC	132
(2) INFORMATION FOR SEQ ID NO:1722: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1722: CTCCTGGGGG CCTCCTG	. 17
(2) INFORMATION FOR SEQ ID NO:1723: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1723: BTCCTGGCCB CGGBBTTCC	19
(2) INFORMATION FOR SEQ ID NO:1724: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1724: GTCCCTC	7
(2) INFORMATION FOR SEQ ID NO:1725: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1725: GGTGTGCGGG GCCTGGTGCC CCTGGGCCTC GGGTGCTGC CTTCTTCTCC TGGGTCCTCG CCGGGGCCCT TGCTGCCCTG GCTGTGCCCT GGGGGTCTGC GTTCGGCTGT CCCCBGCBGG BCCBGTCCCB TCCBCBGCGT GTGBTGBGTB GCCBTTCTCC TGCBGCCGBG	60 120 180
(2) INFORMATION FOR SEQ ID NO:1726: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1726: TTCTCCTGCB GCCGBG	16
(2) INFORMATION FOR SEQ ID NO:1727: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1727: CTTGCTGCCC TGGCTGT	17
(2) INFORMATION FOR SEQ ID NO:1728: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1728: CCTTCTCCTG G	11
(2) INFORMATION FOR SEC ID NO.1729.	

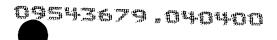
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1729: GGGCGCGGGG GBGCBTCGCT TTGGGCTTTT CTCCTTTGGT TTGBGCGCCB GGBCCGCGCB	60
CBGCBGCBGG GCGCGGGCGB GCBTCGCBGC GGCGGGCBGG G (2) INFORMATION FOR SEQ ID NO:1730: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs	101
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1730: GGCBGGG	_
	7
 (2) INFORMATION FOR SEQ ID NO:1731: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1731:	
	10
(2) INFORMATION FOR SEQ ID NO:1732: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1732: CCTCCTTCCT GGTCTGTCTG CCBGBCBBBT TTGGGBBGTG BBCBGTTTTG GBBCCBTGTT TCCCBGTCTC TGBGCTGTGG C	60 81
(2) INFORMATION FOR SEQ ID NO:1733: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1733:	
TTCTCCTTTG GTT	13
 (2) INFORMATION FOR SEQ ID NO:1734: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1734: TTTCTCCTTT GGTT	14
 (2) INFORMATION FOR SEQ ID NO:1735: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1735: GCCCTGCTGC TCTTTCTGCT TCCCTTGGTG GGTTGGGCCG CTGGTTGTTC TGGGGTTCTT GCTGCCCCTT CTGTCCCTGT TTGCTGGTGT CTGCGCCCCC BBCBGBBBBBBBBBB	60 120 156
(2) INFORMATION FOR SEQ ID NO:1736:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1736: TTCCTGT	7
(2) INFORMATION FOR SEQ ID NO:1737: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1737: CTCTTTCTGC T	11
(2) INFORMATION FOR SEQ ID NO:1738: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1738: CCCCCTTCTGT CCC	13
(2) INFORMATION FOR SEQ ID NO:1739: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 272 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1739:	13
CCTCTGTTCT TGTTGTTGCT TGCGCCTCCT GCTGGGGGTC CCTCTGTTCT TGTTTTGGGG GCGGCCCGG CCGTTGTCTT GGTTTGGGGG TTTCCGTTGG GGTTCTCCTG GCCCGGGCCT TGCCCGGCCG TGGTCCCGGC TTCGTTCCTG TCCCGTCTC GGCTCTTCTG GGGCCTTGCG CTGTCTTTGG TGGCBCCGTC CBGTGBTGGT GCGGTBCTTG TCGCTGCBGC GCTCGGCCTG GTCCCGGBGB GC	60 120 180 240 272
(2) INFORMATION FOR SEQ ID NO:1740: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1740: TCGGCCTGGT CCCGG	15
(2) INFORMATION FOR SEQ ID NO:1741: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1741: TGGGGGGTTTC CGTTG	
 (2) INFORMATION FOR SEQ ID NO:1742: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	15
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1742: IGGTCCCGGB GBGC (2) INFORMATION FOR SEQ ID NO:1743: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs	14

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1743: GCGCGGGCCG GGGGCTGCTG GGGGTTGGCC CGGCGTGCG TGCCCTCGT CTCTGCGGTC GTGTCTCCTG GCTCTGGTTC CCCGCTGCG CCGTTGTCCT CTGGGGTGG CTTCGCTCCC GGGTCTGCTT CTTGTGTTGG GGGTCCCTT TTGGGCCTGT TGTGGCGTG CTTGTGTGTT CGGTTTCTGC CCTGTCCTCC GGCGTCCCC GBGCCTCCCC GGGGCBGGB GBCTTTTGBG GGGGBCBCB BTGTCTGGGC BTTGCCBGT CCTGGGBBCB GBGCCCCGB CBGGBCCBGG BGTGCGGCCB GCGCGGCCCG GGGGCTGCTG CGBGGCCBTBG CGBGGCTGB	C 120 G 180 T 240
(2) INFORMATION FOR SEQ ID NO:1744: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1744: GGGGGGCTGCT GGG	13
(2) INFORMATION FOR SEQ ID NO:1745: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1745: TGTCCTCCGG CGTCCC	16
(2) INFORMATION FOR SEQ ID NO:1746: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1746: GCCBTBGCGB GGCTGBG	17
(2) INFORMATION FOR SEQ ID NO:1747: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1747: CTCTGGGGTG GCCTTC	16
 (2) INFORMATION FOR SEQ ID NO:1748: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:1748: 	16
CCTCTTTTCT GTTTTTCCCC TCTGCCTTTG TTTGGGTTCG CTTCCTTTCT GCTTCTTCCC TGTGTCTCCT GTCTCCGCTT TTTTCTTCGT CTTTGTTGTT TTCTCTTCCT TGCTGBGCBB GBTBTCTBGB TTCTGGGGTG GTCTCGBTTT TBBBBBGCTTG BGBBGCTGCB BBCBTTBTCC BBBGTBTBTT TGBGGCTCCB BGGBTCBCGB CCBTCTTCCC BGGCBTTTTBBBBGCTTG BGBCTGCB BCTTGCTGTC (2) INFORMATION FOR SEQ ID NO:1749: (1) SEQUENCE CHARACTERISTICS:	120
(A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1749: CTGTCGT	_

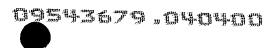
(2) INFORMATION FOR SEQ ID NO:1750: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1750: TGCTTCTTCC	10
(2) INFORMATION FOR SEQ ID NO:1751: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 249 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1751: BBGTGBGBGC TGBGBGBBBC TGTGBBGCBB TCBTGBCTTC BBGBGTTCTT TTCBCCCGTT CTTGCTTCT TCTGTCCGTT GGCTTCTGT TGTCCCTGTG GGCTTCTCGT TCGGGGGCTG GTGGGGCCGT CCTTGCCTGC TGGGTTCTTG TCCGTTGGCT	60 120 180
TCTCGTTGTC CCTGTGGGCT TCTCGTTGTC CCCCCTTCGG GGGCTGGTGG GGCCGTCCTT GCCTGCTGG (2) INFORMATION FOR CRO. ID NO. 1250	240 249
(2) INFORMATION FOR SEQ ID NO:1752: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1752: CCTTGCCTGC TGG	13
(2) INFORMATION FOR SEQ ID NO:1753: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1753: GTTGTCCC	13
<pre>(2) INFORMATION FOR SEQ ID NO:1754: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:1754:</pre>	8
TTTTCTCTTT CGCTTTCTTT TCGTCTCCTG TTCCTCCTTT TTTGCTGTTT TTTCTCCTTC TTCTCTCCTT TCTTTTC	60 77
(2) INFORMATION FOR SEQ ID NO:1755: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1755: TCCTTTCTTT TC	12
(2) INFORMATION FOR SEQ ID NO:1756: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1756: CTCCTTTT	
0.001111	8

(2) INFORMATION FOR SEQ ID NO:1757: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1757: TTTTCTCTTT CGCTTTCTTT TCGTCTCCTG TTCCTCCTTT TTTGCTGTTT TTTCTCCTTC TTCTCTCCTT TCTTTTC	e 60 77
(2) INFORMATION FOR SEQ ID NO:1758: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1758: CCTTTCTTTT C	11
(2) INFORMATION FOR SEQ ID NO:1759: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1759: CTGTTCCTCC TTTT	14
(2) INFORMATION FOR SEQ ID NO:1760: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1760: CTCTGTCTTG TTCTGGTCCT TCGTGGGGCT CTGTGTCGCG TGGGTGCGGC CGTGGCCGGC GGBCCBGGBG TTGGBGCBGG BGCBGGBCGG GCBGCGGCT CBTGTTTGGB TCGGCBGGBGGGCCCCCCCCCC	
(2) INFORMATION FOR SEQ ID NO:1761: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1761: GGBGGCBCTC	10
(2) INFORMATION FOR SEQ ID NO:1762: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1762: GTGGGGCTCT G	10
(2) INFORMATION FOR SEQ ID NO:1763: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 648 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1763:	11
TCTGGGGTGT CCTGGCCTTC GTGGTTCCTC TTCCTTCGTT TGCCGTCCGC GGGGGCCCCC GGGCCTGGCT GCGCTCCTCC CCCGCCTCTT TCCCGGGCTC TTGCGCTGGG GGGTGCTCCC GTGTGTTTGC GCCCTCCTCC TGGTCGCGCT TGTCGTTTTTG GGGCCGGCTT TGCCCGCCTCT	120



CCGGCGCCTG GCCCGGCCTT CCTGGGCTGC GTGCGCGTTC TGTTCTTCTT CCTGGCTCTG GGGTGTCCTG GCCTTCCTGG TTCCTCTTCC GTCGCGGGG GCCCCCGGGC CTGGCTGCC TCCTCCCCG CCTCTTTCCC GGGCTCTTGC GCTGGGGGGT GCTCCCGGG CGCCTGGCC GGCCTTCCTG GCCTTCTC GCGCTTGTC GCGCTTGTC CAGGGCAGGG CGATCAGGAG CAGCGTGAGC CAAAGGAGGA CCATCGGGAA CGCAGCTCCG GAACGCAGGA CAGAGGTGCC GCGGGGGGG GGGCGGGGGGGGGG	240 300 360 420 480 540 600 648
(2) INFORMATION FOR SEQ ID NO:1764: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1764: GBGGTGCC	8
(2) INFORMATION FOR SEQ ID NO:1765: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear. (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1765: GCCCCGC	
(2) INFORMATION FOR SEQ ID NO:1766: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1766:	7
CTCTGGTTGG CTTCCTCGC CGGCBCBTGC TBGCBGGBBG BBCBGBGGG GBBGCBGTTG GGBGGTGBGB CCCBTTBBTB GGTGTCGB (2) INFORMATION FOR SEQ ID NO:1767: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	60 88
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1767: GCCGGCBCB (2) INFORMATION FOR SEQ ID NO:1768: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1768: TTCCTTC	9
(2) INFORMATION FOR SEQ ID NO:1769: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 562 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1769: TCTGCCCTGT CCGCCGGCTC TTCGGTGGCT CGGCCCCGCT CCTTGTCTTG CCGCGGGTTG GTTCCTGGGC CTGGTTCTTG CGGGCGTTC GGTCTGGG CTCGTCTGGG CCCGCGGTGC GGCGGGTGGC TTGCTGTTCTT GCCTGGGCTC TCCCCTCTCC TCCTTTTCTC CCTTCCTCTG	60 120 180
TCTTGCCTCC TTCCTCTGGG TCCTCTTGGC CTGGGCGCTC TTCCCCTCGG GCGCTGCGG GCGCTCGTGC TGCCTGGTC GCTCCCTGGG GGTGCTCCTT CCCTTTCCCC GCTCGTGGGG TTTGCGGGGC TGGGCTGCCC TGGGGGGTCT GGGCCTTTTG GGGTCGGCTG GCTGCTGCTT	240 300 360

CGGGCCGCCT GGGCTTCCCT GTGCCCCTTT CCTCTGCTGG GTCCCCCTCC CGTTCCAAGC TGCACCGCAC AGACCGGCGC TACAGGACAG AGCCAGGCAA GCACCCATGG GGATCCAGGC CCAGCTGTTC CBBGCTGCBC CGCBCBGBCC GGCGCTBCBG GBCBGBGCCB GGCBBGCBCC CBTGGGGBTC CBGGCCCBGC TG	420 480 540 562
(2) INFORMATION FOR SEQ ID NO:1770: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1770: TCTGCGC	
	7
(2) INFORMATION FOR SEQ ID NO:1771: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:1771:	
CCTGCTCCTG GGG	13
(2) INFORMATION FOR SEQ ID NO:1772: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1772: TCCCTGTTTC CCCCCTTTCG TTCTGCGTTT GCCTTTGGCG TTTTTTGTTT GTTTTCTCTC TCCGTCTTTC TTCTCCCCTG TGGGBBTTTC TGTGGGGBTG GCBTBCBCGT BGGCBGCTCC BBGBGCTBGC BBBCTCBBBT GCBGBBGCBT CCTCBTGGCT CTGBBBCGGT GGGAATTTCT GTGGGGBTGG CATACACGTA GCCAGCTCCA AGAGCTAGCA AACTCAAATG CAGAAGCATC CTCATGGCTC TGAAACG	60 120 180 240
(2) INFORMATION FOR SEQ ID NO:1773:	257
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1773: GCCCCGGG	8
(2) INFORMATION FOR SEQ ID NO:1774:(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1774: GGGTTTCT	8
(2) INFORMATION FOR SEQ ID NO:1775: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:1775:	ŭ
Gleecertee C	11
 (2) INFORMATION FOR SEQ ID NO:1776: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	



(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1776: CCBBGBGCTB GC (2) INFORMATION FOR SEQ ID NO:1777: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1777: GTGGGAATTT CTGTGGGGBT GGCATACACG TAGGCAGCTC CAAGAGCTAG CAAACTCAAA TGCAGAAGCA TCCTCATGGC TCTGAAACG	12 60 89
(2) INFORMATION FOR SEQ ID NO:1778: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 249 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1778: CTCAGTGGCC CCCAAAAGGA TGAGTAATAC ATGCGCCACG ATGATCATAT CCTTTTTACT ATGAGGCCGT GTCTGTCGTG TCTTTCCTTT GCTCTTGGTG TGTCTTTGCT GTGCCCTGCC TCTCTGCCCG TGTCTGTCGT GTCTTTCCTT TGCTCTTGGT GTGTCTTTGC TGTGCCCTGC CTCTCTGCCC GTGTCTGTCG TGTCTTTCCTT TGCTCTTTGG TGTGTCTTTGC CTGTGCCCTGC CCTCTCTGCCC GTGTCTGTCG TGTCTTTCCT TTGCTCTTTGG TGTGTCTTTTG CTGTGCCCTGC CCTCTCTGCC	60 120 180 240 249
(2) INFORMATION FOR SEQ ID NO:1779: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1779: CCGTGTC (2) INFORMATION FOR SEQ ID NO:1780: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs	7
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1780: GCCCTGCC (2) INFORMATION FOR SEQ ID NO:1781: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	8
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1781: CTCBGTGGCC CCCBBBBGGB TGBGTBBTBC BTGCGCCBCG BTGBTCBTBT CCTTTTTBCT BTGBGG (2) INFORMATION FOR SEQ ID NO:1782: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 869 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1782:	60 66
GGGGGTGGCT TCCTGCCGCG TCTCTGGGCC GTCCCGTCCC TCGGCCCCGC GCCGCGCTCG GCTCCTCTCC CTCTGGCCCG GCTCGGGGCG GGCGGGGCG GGCGGTGCC TGCGCGCGCC GCTGGCCCCT GCTGGCCGC GGCGGGGCG GGCGCTGCC GCGCCGGGGC CTGTCCGCCT CTGCGGCCGC TGCTCTCTG CTGCGGGGGG GGCTCTTCTG CTGGGGTGGG GCTGGCGC CGGCCCGGTG CTGGGGGGGG	60 120 180 240 300 360

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TCCTGCTTGT CTTGCCTTCC TTCTCTGGTC GGTTGTGGCT CGGGGCTCCG TGGGTCCCTG
                                                                420
 480
 TCTTCCTCCT TTTTCGTGCG TGGGCCTCCG CACGCCTCTT GCCACCTCCT GCGCAGGGCA
                                                                540
 GCGCCTTGGG GCCAGCGCG CTCCCGGCGC GGCCAGCAGG GCAGCCAGCA GCGCGCAGCC
                                                                660
 GACGGCCAGC ATGCTTCCTC CTCGGCTACC ACTCCATGGT CCCGCAGAGG CGGACAGGCG
                                                                720
 CBCGCCTCTT GCCBCCTCCT GCGCBGGGCB GCGCCTTGGG GCCBGCGCCG CTCCCGGCGC
 GGCCBGCBGG GCBGCCBGCB GCGCGCBGCC GBCGGCCBGC BTGCTTCCTC CTCGGCTBCC
                                                                840
 BCTCCBTGGT CCCGCBGBGG CGGBCBGGC
                                                                869
         (2) INFORMATION FOR SEQ ID NO:1783:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 13 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1783:
 GCBGCCBGCB GCG
                                                                13
         (2) INFORMATION FOR SEQ ID NO:1784:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 14 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1784:
 CGCBGCCGBC GGCC
                                                                14
         (2) INFORMATION FOR SEQ ID NO:1785:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 869 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1785:
GGGGGTGGCT TCCTGCCGCG TCTCTGGGCC GTCCCGTCCC TCGGCCCCGC GCCGCGCTCG
120
GCGCCGGGGC CTGTCCGCCT CTGCGGGCGC TGTCTCCTGG CTTGTCTTCC GGCTCTTCTG
                                                               180
240
                                                               300
TCCTGCTTGT CTTGCCTTCC TTCTCTGGTC GGTTGTGGCT CGGGGCTCCG TGGGTCCCTG
                                                               420
480
CTGCTTCTCG CTCTCCTTTG TGGGGCCCTC CCTGCTGCTC TTGGTTTTGG GCTTTTTTTC
TCTTCCTCCT TTTTCGTGCG TGGGCCTCCG CACGCCTCTT GCCACCTCCT GCGCAGGGCA GCGCCTTGGG GCCAGCCGC CTCCCGGCGC GGCCAGCAGG GCAGCCAGCA GCGCGCAGCC
                                                               540
                                                               600
GACGGCCAGC ATGCTTCCTC CTCGGCTACC ACTCCATGGT CCCGCAGAGG CGGACAGGCG
                                                               660
                                                               720
CBCGCCTCTT GCCBCCTCCT GCGCBGGGCB GCGCCTTGGG GCCBGCGCCG CTCCCGGCGC
                                                               780
GGCCBGCBGG GCBGCCBGCB GCGCGCBGCC GBCGGCCBGC BTGCTTCCTC CTCGGCTBCC
                                                               840
BCTCCBTGGT CCCGCBGBGG CGGBCBGGC
                                                               869
        (2) INFORMATION FOR SEQ ID NO:1786:
     (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 8 base pairs
       (B) TYPE: nucleic acid
       (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1786:
GGGGCBGG
                                                                8
        (2) INFORMATION FOR SEQ ID NO:1787:
     (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 13 base pairs
       (B) TYPE: nucleic acid
       (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1787:
GBBGGCBGCB GGC
                                                               13
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(2) INFORMATION FOR SEQ ID NO:1788: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1788: CCBGGBGCBG CCCC	14
 (2) INFORMATION FOR SEQ ID NO:1789: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1789: 	
(2) INFORMATION FOR SEQ ID NO:1790: (i) SEQUENCE CHARACTERISTICS:	14
(A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1790: CTCCTGGGGG TBCTGGGGCB GGGBBGGCBG CBGGCBBCBC CBGGBGGBBGGGBBGGGBBGGGGBBGGGGBBGGGGGBGGGG	60
GBTBGBGC (2) INFORMATION FOR SEQ ID NO:1791: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid	120 128
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1791: GGGGTGGBBB GGTTTGGBGT BTGTCTTTBT GCBCTGBCBT CTBBGTTCTT TBGCBCTCCT TGGCBBBBCT GCBCCTTCBC BCBGBGCTGC BGBBBTCBGG BBGGCTGCCB BGBGBGCCBC GGCCBGCTTG GBBGTCBTGT TTBCBCBCBG TGBGBTGGTT CCTTCCGGGC TTGTGTGCTC TGCTGTCTCT TGGTTCCTTC CGGTGGTTTC TTCCTGGCTC TTGTCCTTTC TCTTGGCCCT TGGC	60 120 180 240
 (2) INFORMATION FOR SEQ ID NO:1792: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1792: 	244
(2) INFORMATION FOR SEQ ID NO:1793: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	8
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1793: GCBCTGBCBT CT (2) INFORMATION FOR SEQ ID NO:1794: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	12
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1794:	

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CCGGTGG
                                                                               7
           (2) INFORMATION FOR SEQ ID NO:1795:
        (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 10 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1795:
 GGCCCTTGGC
                                                                             10
           (2) INFORMATION FOR SEQ ID NO:1796:
        (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 87 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1796:
 GGGGTGGBBB GGTTTGGBGT BTGTCTTTBT GCBCTGBCBT CTBBGTTCTT TBGCBCTCCT
                                                                             60
 TGGCBBBBCT GCBCCTTCBC BCBGBGC
                                                                             87
           (2) INFORMATION FOR SEQ ID NO:1797:
       (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 489 base pairs
          (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1797:
 GGGCTCCCGC CGCGBGBGGT TBTGGGCTCC CBGGBCCBCC CGCBCCGCGC GGBCGTTTBC
BTTCGCCBCG CBGTGCGCG CCGBCBTGBC GBBGTTGGGC GCBBTCBGG TGGCGCCGCB GBBGTGGCCT CCGCGCBGCT GCBGGGBCBC CBTGBGGGC CBCGCGTGG GCCGCGCTCG CCGGCCCCCC BCBBTCTCCG BGGCCBGCC GGTGCCCCCC BGCBGCBGGC CCGGCBGGBC
                                                                            120
                                                                            180
                                                                            240
BCBGGCGBGG BGBCBCGCGB GTCGGCGGCC GBGGGTCBTG GTGGGGCTGG GGCTCCGGGG
                                                                            300
TCTCTGCCCC TCCGTGCTGG TGGGGCTGGG GCTCCGGGGT CTCTGCCCCT CCGTGCCGCG
                                                                            360
TGGGGCCGCG CTCGCCGGCC CCCCCTGCC GGGTGGGCTC CCGCCGCGC CCGGCCTGCC
                                                                            420
GGCCCCTCGT GGGTCCTGCT GGCCGGGTCC GGGTCCCGGG GGTGGGGCGC GBGTCGGCGG
                                                                            480
CCGBGGGTC
                                                                            489
          (2) INFORMATION FOR SEQ ID NO:1798:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 8 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1798:
GGTGGGGC
                                                                              Я
          (2) INFORMATION FOR SEQ ID NO:1799:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 7 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1799:
GGGGCCG
                                                                             7
          (2) INFORMATION FOR SEQ ID NO:1800:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 13 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1800:
GGCCGGGTCC GGG
                                                                            13
         (2) INFORMATION FOR SEQ ID NO:1801:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 317 base pairs
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(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1801: GGGCTCCCGC CGCGBGBGGT TBTGGGCTCC CBGGBCCBCC CGCBCCGCGC GGBCGTTTBC BTTCGCCBCG CGGTGCGCG CCGBCBTGBC GBBGTTGGCC CBCGCGCGCB GBBGTGGCCT CCGCGCBGCT GCBGGBCBC CBTGBBGGC CBCGCGTGG GCCGCGCTCG CCGGCCCCCC BCBBTCTCCG BGGCCBCGC GGTGCCCCC BCBGCBGGBC BCBGCGBGG BGBCBCCGB GTCGGCGGCC GBGGGTCBTG GTGGGGCTGG GCTCCTGCCCC TCCGTGC	60 120 180 240 300 317
(2) INFORMATION FOR SEQ ID NO:1802: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: Genomic DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1802: CGGGBGTGGG GGTCCTGGBC GGCBCTGBBG GCBTCCBGGG CTCCCTTCCB GTCCTTCTG TCCGCTGCCB GCBCCCTTC BTTCCBGBGG CTGBTGGCCT CCBCCBGGB CBTGBTBGG TBGBBBCTBG GBGCCGGCC TCCBCCBGGG BCBTGGTCCT TCTTGTCCGC TGGGTTTTCGG TCTGGGTGGG CTTTCCTCCT GGGGCTGTG CTGGGCTCTT CTTTTTTTT	60 120 180 240 300 308
(2) INFORMATION FOR SEQ ID NO:1803: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1803: CGGGGBGTGGG GG	12
(2) INFORMATION FOR SEQ ID NO:1804: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1804: GCCBGCBCCC C	11
(2) INFORMATION FOR SEQ ID NO:1805: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1805: CCBCCBG	7
(2) INFORMATION FOR SEQ ID NO:1806: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1806: CGGGBGTGGG GGTCCTGGBC GGCBCTGBBG GCBTCCBGGG CTCCCTTCCB GTCCTTCTTG TCCGCTGCCB GCBCCCTTC BTTCCBGBGG CTGBTGGCCT CCBCCBGGGB CBTGBTTBGG TBGBBBCTBG GBGGCC	60 120
(2) INFORMATION FOR SEQ ID NO:1807: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs	136

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1807: CCCTCCBCBT CTGCTCTGBC CTGCTGGBCT CTGGBTCTGB BGBTBCGCCB TGTBGGGGCG GGBGTGGGC CTGCTCTCCC GGCCTCCGBT GBTCTCCCCT GCCTCBGCCC CBGTGGGTBG GBGBBBGGCC BGCBGBBGCB GGBGTGGCTG CBTCTTTCCT GGTGGGGCCT GCTCTCCCGG CCTCCGTGTG TTGCTGGGTG TTTTCCCGTC TCTGGTCTGC CTTCGGGGGT CGT	60 120 180 233
(2) INFORMATION FOR SEQ ID NO:1808: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1808: GBBGBTBCGC C	11
(2) INFORMATION FOR SEQ ID NO:1809: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1809: CBGCCCCBG	9
(2) INFORMATION FOR SEQ ID NO:1810: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1810: TCCCCGTCTCT GG	12
(2) INFORMATION FOR SEQ ID NO:1811: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1811:	16
CCCTCCBCBT CTGCTCTGBC CTGCTGGBCT CTGGBTCTGB BGBTBCGCCB TGTBGGGGCG GGBGTGGGGC CTGCTCTCCC GGCCTCCGBT GBTCTCCCCT GCCTCBGCCC CBGTGGGTBG GBGBBBGGCC BGCBGBBGCB GGBGTGGCTG (2) INFORMATION FOR SEQ ID NO:1812: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	60 120 150
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1812: CCGGGGCTGC BGCBBCCTCB TCBGCTCTTG CCTGGBGTGG CTCBGCCTGG GCCTGCBGGGG CCBCCBGBG BBTGGCBG BGGBTGGCGB GGGTCCTCBT GGCTGGGGTC BCBGBTCCTC TBGCTBGGCB GGGTGBCCBG BGBGGGCGGG TCCTCBTGGC TGGGGGCCTG GGCCTGCBGG GCCGCTCTTG CCTGGBGTGG CTCGCCCBGB GTCTTCCCTG GT (2) INFORMATION FOR SEQ ID NO:1813:	60 120 180 222
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1813: CCGGGGC	7

 (2) INFORMATION FOR SEQ ID NO:1814: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	,
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1814: GGGCCTGCBG GGCC	14
 (2) INFORMATION FOR SEQ ID NO:1815: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1815: GGCBGCBBGG	10
 (2) INFORMATION FOR SEQ ID NO:1816: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1816: 	
CCGGGGCTGC BGCBBCCTCB TCBGCTCTTG CCTGGBGTGG CTCBGCCTGG GCCTGCBGGG CCBCCBGGBG BBTGGCBGCB BGGBTGGCGB GGGTCCTCBT GGCTGGGGTC BCBGBTCCTC TBGCTBGGCB GGGTGBCCBG BGBGGGC	60 120 147
(2) INFORMATION FOR SEQ ID NO:1817: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1817: CGCTGCBBTC TGCTCCGGGG CTGCBGCBBC CTCBTCBGCT CTTGCCTGGB GTGGCTCBGC CTGGGCCTGC BGGGCCBCCB GGBGBBTGGC BGCBBGGBTG GCGBGGGTCC TCBTGGCTGG GGTCBCCTGG BGGBGGBGB GCBGGGGGTC CTCBTGGCTG GGGTCCCTCT CTCCCGTCCT	60 120 180
 (2) INFORMATION FOR SEQ ID NO:1818: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1818: GGCBGCBBGG	10
 (2) INFORMATION FOR SEQ ID NO:1819: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1819: GGCTGGGG	8
 (2) INFORMATION FOR SEQ ID NO:1820: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1820: GGGGTCBCC	9

(2) INFORMATION FOR SEQ ID NO:1821:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1821: CGCTGCBBTC TGCTCCGGGG CTGCBGCBBC CTCBTCBGCT CTTGCCTGGB GTGGCTCBGC CTGGGCCTGC BGGGCCBCCB GGBGBBTGGC BGCBBGGBTG GCGBGGGTCC TCBTGGCTGG GGTCBCCTGG BGGBGGGBGB GCBGG	60 120 145
(2) INFORMATION FOR SEQ ID NO:1822: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1822: GTCTTTGTTT CTGGGCTCGT GCCCCBTCCC GGCTTCTCTC TGGTTCCGTC CTCTGTGGTG TTTGGCCCTG CTTCCTTTTG CCTGTTGAGG GGGCAGCAGT TGGGCCCCAA AGGCCCTCTC GTTCACCTTC TGGCACGGAG TTGCATCCCC ATAGTCAAAC TCTGTGGTCG TGTCATAGTC CTCTGTGGTG TTTTGGAGTTT CCATCCCGGC TTCTCTCTGG TTCCAAGGGA GBGGGGGCBG	60 120 180 240
CBGTTGGGCC CCBBBGGCCC TCTCGTTCBC CTTCTGGCBC GGBGTTGCBT CCCCBTBGTC BBBCTCTGTG GTCGTGTCBT BGTCCTCTGT GGTGTTTGGB GTTTCCBTC CGGCTTCTCT CTGGTTCCBB GGGB (2) INFORMATION FOR SEQ ID NO:1823: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs	300 360 374
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1823: GGGCCCC (2) INFORMATION FOR SEQ ID NO:1824:	7
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1824: GGGGGCBGC	9
<pre>(2) INFORMATION FOR SEQ ID NO:1825: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1825:</pre>	
(2) INFORMATION FOR SEQ ID NO:1826: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	9
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1826: GGGCBCGGGG CBGTGGGCGG GCBBTGTBGG CBBBGCBGCB GGGTGTGGTG TCCGBGGBBT BTGGGGBGCC BGBTGCBGGB GCGCBGBGGG CBGTBGCBBT GBGGBTGBCB GCGBGGCGTG CCGCGGBGBC CTTCBTGGTB CCTGTGGBGB GGCTGTCGGB GGGGGTGTGG TGTCCGCTTG GCGGTTCTTT CGGGTGTTC TTCTCTGGGT TGGCCTGCTG CTCGTCGTG TCCCCGCT CCCGGGTTCG TCTCGCTCTG TCGCCCCTTC CTTCCTTGTC GTGTTCCTCC CTTCCTTGCC TCT	60 120 180 240 300 303

(2) INFORMATION FOR SEQ ID NO:1827: (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1827: GGGTTGGC	8
(2) INFORMATION FOR SEQ ID NO:1828: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1828: CGGGGCBG	8
 (2) INFORMATION FOR SEQ ID NO:1829: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1829: CCCGGGTTCG (2) INFORMATION FOR SEQ ID NO:1830: (i) SEQUENCE CHARACTERISTICS:	10
(A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1830: GGGTGTGGTG	10
 (2) INFORMATION FOR SEQ ID NO:1831: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1831: GGGCBCGGGG CBGTGGGCG GCBBTGTBGG CBBBGCBGCB GGGTGTGGTG TCCGBGGBBT BTGGGGBGGC BGBTGCBGGB GCGCBGBGGG CBGTBGCBBT GBGGBTGBCB GCGBGGCGTG CCGCGGBGBC CTTCBTGGTB CCTGTGGBGB GGCTGTCGGB GG	60 120 162
 (2) INFORMATION FOR SEQ ID NO:1832: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1832: GCTGCCCGGC GGGGTGTGCG CTTGGCGCTC CCGTGCTCGG TTCTCTGTCT CCCGGTCCCC CTTGCCTGGC GTCTCGGGCC TTCGTCCTCT TCCTCTTCTT CCTTCCGCTC CGTGGGGGCT GCTTGGTGGG GGCCTGTGCC TCGGGGTCCC GGGGCTTCTG GCCCTTGCCG TTCATGGTGG CTAGGTGGG CGTTCBTGGT GGCTBGGTGG GGC	60 120 180 213
 (2) INFORMATION FOR SEQ ID NO:1833: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1833: GGTGGGGC	8

(2) INFORMATION FOR SEQ ID NO:1834:(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1834: GCCCGGCGGG G	11
(2) INFORMATION FOR SEQ ID NO:1835: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1835: CGGGGGCTTCT GGCCC	15
(2) INFORMATION FOR SEQ ID NO:1836: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 347 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1836: GGGGTGGGTB GGCCGTGTCT GGGGGTTGGC CBTGTTGGTT GCCTCTTGGT GGTGCGCCGG GCGCGTCTTG GCTTTCTTCT CCTTCGGCC CTCGGGCCGG TGCTTGTGGG CTCCTCCCGG GCGGCCTCCC CGGGCGGGG CTTCTTGGCG CTGGCGGGGG GGCCTCCTGC TCTGTGGCTG GCGGTTCCTT GGTGTTCTGG GTGGTGGCG GCGTGGTGGC CTCTGTGGGG GCCCGCGGCT GCBGGGGTTG CCTGTCTGCT TCGTCCTTTG CGCTCCCGGG CCGCCGGGT GGGTAGGCCG TGTCTGGGGG TTGGCCATGT TGGTTGCCGG GCCCCGGGCT GCAGGGG	60 120 180 240 300 347
(2) INFORMATION FOR SEQ ID NO:1837: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1837: CCCCGGGCCGG	9
(2) INFORMATION FOR SEQ ID NO:1838: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1838: GGCGGGGGGGG CC	12
(2) INFORMATION FOR SEQ ID NO:1839: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1839: CCCCGGGCCGC C	11
(2) INFORMATION FOR SEQ ID NO:1840: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1840: GGCCGTGT	8
(2) INFORMATION FOR SEQ ID NO:1841:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 664 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SECURACE PROPERTY.	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1841: CGGTTTCCTT TGCGGTCTTG GCCCGGGCTC CGGGTGCCCG CCCGCCGCC CCGCCGGGCT TGCGCCGGCT TGCGCCGGCC CGCCCGGCC CGGGGCCGCC TGCCTCTTGC TCTTCTGCGT CCGCTCTCCCTCCCCTC	60 120 180 240 300 360 420 480 540 660 664
(2) INFORMATION FOR SEQ ID NO:1842: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1842: GGCCCGGGC	9
(2) INFORMATION FOR SEQ ID NO:1843: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1843: GCCGGCGCGG GCG	13
(2) INFORMATION FOR SEQ ID NO:1844: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1844: GCCTGGGCTG GCC	13
(2) INFORMATION FOR SEQ ID NO:1845: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1845: GGGGGTGGCC G	11
(2) INFORMATION FOR SEQ ID NO:1846: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1846: GGGGGTGGCC GTTGTGGGCG G	21
 (2) INFORMATION FOR SEQ ID NO:1847: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1847:	
GBTGTTTGTT BCCBBBGCBT CBBGBBTBGC TTTGCTBTCT BBGGBTCBCB TTTBGBCBTB GGBBBBCGCT GTBGGTCBGB BBGBTGTGCT TBCCTTCBCB CBGBGCTGCB GBBBTCBGGB BGGCTGCCBB GBGBGCCBCG GCCBGCTTGG BGTCBTTT BCBCBCBGT BCBCBCBGTG BGGTGCTCCG GTGGCTTTTT GCTTGTGTGC TCTGCTGTCT CTGTTCCTTC CGGTGGTTTC TTCCTGGCTC	60 120 180 240 266
(2) INFORMATION FOR SEQ ID NO:1848: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1848: GCTCCGG	7
(2) INFORMATION FOR SEQ ID NO:1849: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1849: CBBGBBTBGC	10
(2) INFORMATION FOR SEQ ID NO:1850: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (**i) SEQUENCE DESCRIPTION: SEQ ID NO:1850: CBCBCBGTGB GGTGC	15
(2) INFORMATION FOR SEQ ID NO:1851: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1851: BCCBBBGCBT CBBGBBTBGC	20
(2) INFORMATION FOR SEQ ID NO:1852: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1852: GCCBBGBGBG CCBCGGCCBG C	21
(2) INFORMATION FOR SEQ ID NO:1853: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 196 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1853:	
GBTGTTTGTT BCCBBBGCBT CBBGBBTBGC TTTGCTBTCT BBGGBTCBCB TTTBGBCBTB GGBBBBCGCT GTBGGTCBGB BBGBTGTGCT TBCCTTCBCB CBGBGCTGCB GBBBTCBGGB BGGCTGCCBB GBGBGCCBCG GCCBGCTTGG BGTCBTGTTT BCBCBCBGTG BGGTGCTCCG GTGGCTTTTT GCTTGT (2) INFORMATION FOR SEO ID NO:1854:	60 120 180 196

(2) INFORMATION FOR SEQ ID NO:1854: (i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 400 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1854:
 ACAGGGGCTG TAATCTTCAT CTGCAGGTGG CATGCCAGTG AAATTTAGAT CATCAAAATC
 CCACATCTGT GGATCTGTAA TATTTGACAT GTCCTCTTCA GTTTCAGCAA TGGTTTGATC
                                                                        120
 TAACTGAAGC ACCGGCCAGG BCBGGGGCTG TBBTCTTCBT CTGCBGGTGG CBTGCCBGTG
                                                                        180
BBBTTTBGBT CBTCBBBBTC CCBCBTCTGT GGBTCTGTBB TBTTTGBCBT GTCCTCTTCB
                                                                        240
 GTTTCBGCBB TGGTTTGBTC TBBCTGBBGC BCCGGCCBGG TGGCTCGGTG CTTCTGCCCC
                                                                        300
 TGTTGTTGCG GCGCTCGGTT GGTGTGGCCC CTGTGGTGCT TCGTTTCCCC CTCTTTCTCT
                                                                        360
 TTGTTCGGGG GTTCTTGTGG CGGGCTGCTT GTCTCGTTCC
                                                                        400
          (2) INFORMATION FOR SEQ ID NO:1855:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 7 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1855:
CBGGGGC
                                                                          7
          (2) INFORMATION FOR SEQ ID NO:1856:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 9 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1856:
GCBGGTGGC
                                                                          9
          (2) INFORMATION FOR SEQ ID NO:1857:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 9 base pairs
         (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1857:
GCGGCGCTC
                                                                          q
         (2) INFORMATION FOR SEQ ID NO:1858:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 140 base pairs
        (B) TYPE: nucleic acid
(C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1858:
ACAGGGGCTG TAATCTTCAT CTGCAGGTGG CATGCCAGTG AAATTTAGAT CATCAAAATC
                                                                        60
CCACATCTGT GGATCTGTAA TATTTGACAT GTCCTCTTCA GTTTCAGCAA TGGTTTGATC
                                                                       120
TAACTGAAGC ACCGGCCAGG
                                                                       140
         (2) INFORMATION FOR SEQ ID NO:1859:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 140 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1859:
BCBGGGGCTG TBBTCTTCBT CTGCBGGTGG CBTGCCBGTG BBBTTTBGBT CBTCBBBBTC
                                                                        60
CCBCBTCTGT GGBTCTGTBB TBTTTGBCBT GTCCTCTTCB GTTTCBGCBB TGGTTTGBTC
                                                                       120
TBBCTGBBGC BCCGGCCBGG
                                                                       140
         (2) INFORMATION FOR SEQ ID NO:1860:
      (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 346 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1 CTTGBGCBGG BBGCTCTGGG GCBGGGBGCT GGCBGGGCCC TGTCCBGBGT GCBCTGTGCC BCBGCBGGCBG CTGCBGGGCC GGTGGCBGGT CCBGCCBTGG GTCTGGGTGG GGCTGGGCTG	BGGGGGTGG BTCBGCTTCB CBGGCTCCGG GTGCGGGCTG GCTGGGCTGC	TGGGGCTCTG GCGGTCCBGC CGTGCTGGGG	60 120 180 240 300 346
(2) INFORMATION FOR SEQ ID NO:1861: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1 GBGCBGGBBG			10
(2) INFORMATION FOR SEQ ID NO:1862: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1		•	10
GCCBCBGCBG CBGC (2) INFORMATION FOR SEQ ID NO:1863: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1			14
GGGTGCGGGC (2) INFORMATION FOR SEQ ID NO:1864: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18			10
CTTGBGCBG BBGCTCTGGG GCBGGGGGT GGCBGGGCC TGTCCBGBGT GCBCGCGGGGGGG CTGCBGGGCC GGTGGCBGGCC CCBGCCBTGG GTCTGGGTGG GGCTGGGTG (2) INFORMATION FOR SEQ ID NO:1865:	BGGGGGGTGG BTCBGCTTCB	TGGGGCTCTG	60 120 172
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 818 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18 GCBCCGCCTG GBGCCCTGGG GCCCCCTGT CTTCTTGGGG F CBCGTCCCGG BTCBTGCTTT CBGTGCTCBT GTCCTTTCCG CTTGCGCTG TCCTTCCCTCT GGGGCCGTCT CTCTCCCTCT C CTCTCTCTCT CCCCTTTC GCCTGTT CTCGGTGT T CTGCTGTCT GGCCTGCC CTTTCCG GTGTTCCTC C CTGCTGTCCC CCCTTCTGGGG TCTCCCTCT GGTGTGTCT C CCCTTTGCCG TCTCCCTCT GGTGTGTCT C CCCTTTGCC GTGCTCTCG GGTGGTGT T CTCCCTTTCC GGGGGCCGTC TCTCCCTCT GCCCTGGGC C CCCCTTTCC GGGGCCGTC TCTCTCCCTC TCTTGCGTCT C TCCCCTTTCC CGCTCTTCT GTCTCCCTC TCTTGCGTCT C TCCCCTTTCC CGCTCTTCT GCTGTGT CTTTTCTCCCCCT TCCCCTTTCC GGCGCCCC TCTTCGGTGT CTTTTCTCCCCCT TCCCCTTTCC GGCCTCT TCTTCGGTGT CTTTTTCT C CCCCTTTCCC GGTGTCCT CCTCCGGTTC C CCCCTCTGGG GTCTCCCTCT GGCGGGCCCCCCTCTGGCC CCTCCGGTTC CCTCCCGGTTC C CCCCTCTGGG GTCTCCCTCT GGCGGGGCCCC CTTCTTGTTGCT T CTTGTTGCT T CCCCTTTCCC GGTGTCCCCCC CTGCTGGCC CCTCCCGGTTC C CCCCTCTGGG GTGTCCCCTCT GGGGGGGCCC CTTCTTGTTGCT T CTTGTTGCT T CCCCTTCTGG GTGTCCCCCC CTGCTGGCC CCTCCGGGTC CCTCCCGGTTC C CCCCTCTGGG GTGTCCCCCC GGGGGCCCCCCCTCTGGGC CCCCCTCTGGGC CCCCTCTGGCC CCCCTCTGGCC CCCCTCTCTC GGGGGGGG	BGCGCCTCT (CCBGGGGGGGGCCCTTGCGTTCTCCGGTTCCCTTGCGTTCCCCCC	SBGGGGCTGG CCCCTGTCTT ICTCTTTCTC ICTCCGCTGG IGTCCTCTCT GGCTGGGCTC GTCCTCTGGCC CTCTCTCT	60 120 180 240 300 360 420 480 540 660 720 780 818

(2) INFORMATION FOR SEQ ID NO:1866: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1866: GGGGCCCCCC	10
(2) INFORMATION FOR SEQ ID NO:1867: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1867: GGGGGCCGTC T	11
(2) INFORMATION FOR SEQ ID NO:1868: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1868: CCBGGGGBGB GBGGGGCTGG	20
(2) INFORMATION FOR SEQ ID NO:1869: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:1869:	
CTCGGTBGBC GCGCTCGBBC TCGGGTGGGC CGGTGGTGBG CGGCGGCGBC BCGCGGGBBGG CCCTGCGCGC CGBGBTCBCC TGCBGGGGBB BGTBGGCTTG CBGCBGGBCT CCCBGGBGGG TGBCBGCBC CBGTBGBCT BCCTCGTCCT TCBTGGTBCC GTCGGTGTGG TGCCBCGGCT TCGTGTGTGGB GCCCCGTCTG CTGCTCCTCG TGCCGCCTCG TCCTTCATGG TACCGTCGGT GTGGTGGCC CGGGTGGGCC CGGGTGGCTC CGGCTCTCT TCCTCGGTTGG TCCTTCATGG TCCGCTCTCT TCCCGGCTC CGCGTGGCTC CGCGTGGCTC CGCGTGGCTC CGCGTGGCTC CGCCTCGT TCCTCGT CCTTCBTGGT BCCG	60 120 180 240 300 360 364
(2) INFORMATION FOR SEQ ID NO:1870: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1870: GCBGCBGGBC	10
(2) INFORMATION FOR SEQ ID NO:1871: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1871:	
(2) INFORMATION FOR SEQ ID NO:1872: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	10
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1872: CGGCCCGGGG GCC	13

 (2) INFORMATION FOR SEQ ID NO:1873: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1873: CBCGCGG	7
(2) INFORMATION FOR SEQ ID NO:1874: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1874: CTCGGTBGBC GCGCTCGBBC TCGGGTGGGC CGGTGGTGBG CGGCGGCGBC BCGCGGBBGG CCCTGCGCGC CGBGBTCBCC TGCBGGGBGB BGTBGGCTTG CBGCBGGBCT CCCBGGBGGG	60 120
TGBCBGCBGC CBGTBGBGCT BCCTCGTCCT TCBTGGTBCC GTCGGTGTGG TGGCBCGGGC TGTGTGTGBB GGCGBGCTGG	180 200
 (2) INFORMATION FOR SEQ ID NO:1875: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 530 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	200
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1875: BCCGGCGGBG CCGCCBGGGT GGBCTGGGBG TGGGTTTCTC CCCGCCGTTC TCBCCCBCCG CGCTGBGCTC BGCGCCTBBG BCTGCTGTTT CTGGBBGCTC TTGGCBBGCC BCBBBCBGCB GBGBGBBBBT CBTGBGCBBB TBBTCCBTTC TGBBBBBBBG GGBTCBBBBB CCTCCCGTTC CCCGTTCGCC TGGCGCGCC TGCGGGTTCC TCGTGGGTTT CTCCCGCCG TTCTCCGGTC TGTTGCCTTT GTGGGCTTCT TGTCTTTTTG GCTGTTCTTT TCCTGCTTGG CGTCTTTTCC TTTCTTTGTG CTCGGTTGTG GGTCCGCTG TCCTTTGCCC TGTGTGTTTC CGGTCTGTC CCTTTGTGG CTTCTTGTCT TTTTGGCTGT TCTTTTCCT CTTGCCGTC TTTCCTTTCT TTGTGCTCGG TTGTGGGTCC GCTGGTCCTT TGCCCTGTG GTTTCTCTT	60 120 180 240 300 360 420 480 530
(2) INFORMATION FOR SEQ ID NO:1876: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1876: CCGGCGGBGC CGCCBGGGTG GBC	23
(2) INFORMATION FOR SEQ ID NO:1877: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1877: CCGCCBGGG	9
 (2) INFORMATION FOR SEQ ID NO:1878: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1878: 	
GGCGCGCGC (2) INFORMATION FOR SEQ ID NO:1879: (i) SEQUENCE CHARACTERISTICS:	9

(A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1879: GTGGGTCCGC	10
(2) INFORMATION FOR SEQ ID NO:1880: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1880: GCCCTGTCGG GCCGGAAGCC TGTGTGTGT GCCCAATGG GCCCAATGG	
GCCCTGTCGG GCGGAAGCC ACCAGCGCAA CCAGGGCGG CCAGAAGCGT CCAGAAGCGT CCGGTGGCCG BTCCGCGBCB GGCGGCTGCB TGCTCCTCTC TGCTCGCGC GGCGCCCTG TGCTCGGGCGG BGCGGCTGCB TGCTCCCGTG TGCTCCCGTG TGCTCGCCGC TGCTCCCGTG TCCTTTTCTT TTGCTGTCTT CCCCAGATCC GCGACAGGCC GCTGCATGCT GCTACCTGCT CCGCGCCCTG TCGGGCGGGB BGCCTCTCTC TCTCCCCGTG GCGGCCCCG GCGGCCCCC TGCTCGGCC GGTGGCCGCC GCGGCCCTG TCTCCCCGTG GCCCTGTCCG GCGGGCCCTG TCTCCCCGTC TCTCCCCGTC TCTCCCCGTC TCTCCCCGTC TCTCCCCTTT CCCCAGATCC GCGACAGGCC GCTGCATGCT GCTACCTGCT CTCTCCCCGG GCGGCCCCC GCGGCCCCC GCGCCCCCC GCGCCCCCC	60 120 180 240 300 360 399
(2) INFORMATION FOR SEQ ID NO:1881: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1881: CGGGCGGGGBB GCC	13
(2) INFORMATION FOR SEQ ID NO:1882: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1882:	13
(2) INFORMATION FOR SEQ ID NO:1883: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1883:	8
(2) INFORMATION FOR SEQ ID NO:1884: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	10
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1884: GCCCTGTCGG GCGGGAAGCC TCTCTCCTCT CCCCAGATCC GCGACAGGCC GCAGGCAAGA ACCAGCGCAA CCAGGGCGCG TCCGCACAGA CTTGGAGGCG GCTGCATGCT GCTACCTGCT CCAGAAGCGT CCGGTGGCCG CCGC (2) INFORMATION FOR SEQ ID NO:1885: (i) SEQUENCE CHARACTERISTICS:	60 120 144
(A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1885: GCCCTGTCGG GCGGBBGCC TCTCTCCTCT CCCCBGBTCC GCGBCBGGCC GCBGGCBBGB	60

BCCBGCGCBB CCBGGGCGC TCCGCBCBGB CTTGGBGGCG GCTGCBTGCT GCTBCCTGCT CCBGBBGCGT CCGGTGGCCG CCGC	120 144
(2) INFORMATION FOR SEQ ID NO:1886: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 784 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1886: GTCTGTCCTC CCCGTCTCCT CCCACTGCTT CTCCCCGGGG CTTCCCCGGC GCGGGTGCC GGGTGCCCGGCC GGCTCCCCCGGC CCCTTGTGCT GCTTTTTGCT TGTTCCGTTC TGGCTGCCC GGTCTCCTC GGCTCTCCT CTGGCTGCC GCTCTCCCC GCCTTTTGCT TGGCTGCTCC GGCCCTTTTGGG GCCCTTGGCT CTGGCTCCCC GTCTCCCC GTCTCTCCC ACTGCTTCTC CCGGGGGCT CCCCGGGCTC CCCGGGGCT CCCCGGCCG TGCCCGGGC TCCGCGGCC CTGGCCCTC GGCTGCGCC TTTTTGCTTGT TCCTTCTC GGCTGCGGC TCCGGGGCC TTGGCTCTCC CCGGGGGCT TCCGGGGGCC TTGGCTTCTC CCGGGGGCT TCCGGGGCC TTGGCTTCTC GGTTGGGGCC TTGTGTTTTGT TTCTTCTTGG GTGTGGGCCT TGCGTTCTCC CTGGTTCTCC CTGGTTCTCC CTGGTTCTCT TCCGTTCTCC CTGGTTCTCT TCCGTTCTCC CTGGTTCTCT TCCGTTCTCC CTGGTTTTGC TTTTTTTT	60 120 180 240 300 360 420 480 540 600 720 780 784
(2) INFORMATION FOR SEQ ID NO:1887: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1887: GBGGCBBBGG G	. 11
(2) INFORMATION FOR SEQ ID NO:1888: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1888: GCCBGCCBBB BGGB	14
(2) INFORMATION FOR SEQ ID NO:1889: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1889: CGCCTGGGCC C	11
(2) INFORMATION FOR SEQ ID NO:1890: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1890:	
CTGCTGBGGC TTGGGTCTCC GGGCGBTTCT CTGCBGBBGB TGCTCBBBGG GCTCCGGCBG TTCCTCCTTG BTCTGGTCGC TGTCGTBCCB GTCGGBCCBG TBBTTCBGBT CBTCBTTGGC TCCTBTTTCT TCTGCBBBCB GCTGBGTGGB GBCBBGBBBB BBGBCTGCCB BGGCCBCGBG GBTTTTCBTG TTGGBTTTTG CGBCGGBCBG TCCCGCGGGG TGCTGAGTTT CTCTGGTTCC TCCGBGCGCB CGTGGTCGCT CCGCGTTTCT CTGGTTCCTC CGGTCCCGCG GGGTGCTGTC TGGTCGCTGT CGTGGCTTGG GTCTCCGGGC GGTTCCTTC CTTTTCCGC (2) INFORMATION FOR SEQ ID NO:1891:	60 120 180 240 300 349

(2) INFORMATION FOR SEQ ID NO:1891:(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1891: CTCCGGGCGB	10
(2) INFORMATION FOR SEQ ID NO:1892: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1892: GGCCBCGBGG	10
(2) INFORMATION FOR SEQ ID NO:1893: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1893: GGGTCTCCGG GCG	13
(2) INFORMATION FOR SEQ ID NO:1894: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1894: GGGTCTCCGG GCGG	14
(2) INFORMATION FOR SEQ ID NO:1895: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1895: CTGCTGBGGC TTGGGTCTCC GGGCGBTTCT CTGCBGBBGB TGCTCBBBGG GCTCCGGCBG TTCCTCCTTG BTCTGGTCGC TGTCGTBCCB GTCGGBCCBG TBBTTCBGBT CBTCBTTGGC	60
TCCTBTTTCT TCTGCBBBCB GCTGBGTGGB GBCBBGBBBB BBGBCTGCCB BGGCCBCGBG GBTTTTCBTG TTGGBTTTTG CGBCGGBCBG TCCCGCGGGG TGCTGAGTTT CTCTGGTTCC TCCGBGCGCB (2) INFORMATION FOR SEQ ID NO:1896:	120 180 240 250
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 662 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1896:	
GGGCTBBGBT GBTCCBCBTC BCTBCCBCGT TGCCCBCCBC BGBGGTCBCC BCBBTGBCCG TGTBGCCBC TGCCCBBBGG BCBTTTTCC GGGGBGBGGTCTTT GGGGBGBGGT CTGBGTCCBC CGGBBGCTBGC CGGTBBBGCC CTBCTBTCTC TBCBCBCCC CCCTCTGCBC CBGBGTCCTC TCGTGCGCCC TGGGGCTCBG GGTCCGGGCT AAGATGATCC ACATCACTAC CACGTTGCCC ACCACAGAGG TCACCACAAT GACCGTGTAG GCAGCTGCCC AAAGGACAAT TTGCCAGGCT GGTTGCACGA ACTGATTGGG TTCCGAGGTG TTAGTGGAGA TGTTTGGGA GAGGTCTGAG TCCACCGGGA GGACGTTATC CATTTCGAAG CTAGGCGGTA AAGCCCTACT ATCTGTACAC AACCCCCCTC TGCAGCAGAG TCCTGTCGTG GCGCCTGGGG CTCAGGGTCC GTCCTGTCGTT GGCGCCCTGG GTCTGGGGT GTGGCCTTTTT TGTGGGGTTC TTGGTGGCTC TGGCTCTCCT TGGTGGCCC CC	60 120 180 240 300 360 420 480 540 660 660 662

(2) INFORMATION FOR SEQ ID NO:1897:

8

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1897: 	
	9
 (2) INFORMATION FOR SEQ ID NO:1898: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1898: GGGTCCG	7
(2) THEODMANTON FOR STATE OF	7
(2) INFORMATION FOR SEQ ID NO:1899: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1899:	
GGGCCCCC DESCRIPTION: SEQ ID NO:1899:	8
 (2) INFORMATION FOR SEQ ID NO:1900: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 567 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	·
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1900: GGBGCTGBTB CTGCBGATTT CBGBGGGBBG BBCCCTGBTB CTCBCCBGCT TCBGCTCTGG BGCBCBBGBG BBBGBGCBC CTTTCCBGTC CTTTCCBGTC TTGGGTTTTC TCTCGCTGGT TTTCCTTCC TGGCAGTGGG TGCCCTTCCTGT TCTCCTGTC CCTCCTGT TCTCCTGTC CTGTCTCTCTC	60 120 180 240 300 360 420 480 540 567
(2) INFORMATION FOR SEQ ID NO:1901: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1901:	
GGBGCBCBBG	10

(2) INFORMATION FOR SEQ ID NO:1902:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 8 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1902: GBBGCBGC
 - (2) INFORMATION FOR SEQ ID NO:1903:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

 - (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1903:
 GGGGCBBGGC G
                                                                              11
           (2) INFORMATION FOR SEQ ID NO:1904:
        (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 190 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1904:
 GGBGCTGBTB CTGCBGATTT CBGBGGGBBG BBCCCTGBTB CTCBCCBGCT TCBGCTCTGG
 BGCBCBBGBG BBBGBGCBGC BGGGGGBGBG GBBGBBGCBG CBTCTTCCCB GBGBGGCTGC
                                                                             120
 CTGBGCBBBT GCTGGTTTTC CTTTCCBGTC TTGGGTTTTB TBBCTCCCBG BBGGCBBGBG
                                                                            180
 BGGGGCBBGG
                                                                            190
           (2) INFORMATION FOR SEQ ID NO:1905:
        (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 2028 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1905:
 GCGTCTTGGG GTGCBGGGCC CBTCCTGCTG CGCCTGGGCG CTGCTGTGCG TCCGTCTGCT
GGGGGGCCGG GGTGGCTGGG CCCTGCTTGC CGCACGACCC CGGGCCGACC CGAGGCTCGG
                                                                            120
GGGGCTGTGT TCTGGCGCTG GTGGGCTTGG GCCCCTCTGG GGGCTGGGTT TCCTGCTGCG
                                                                            180
CCTGGGCGCT GGCGTCTTGG GGTGCGGGGC CGGGGGGCCG GGGGGCCGCT GTTCGTGGGC
                                                                            240
CTGGGGGTGC CTGTGGCTGC CGGTTGCCCC GGTTGGTGGC GCCGTCCTGC TGCCGGTCGT
                                                                            300
TGGCTGGGTC CCCCCGCCCG TTTCCTGGGG TCCGCGTGGG GTGCTCCGGT TCCTCGTGCC
                                                                            360
GCTGCTGCCT TGTCTTTCCG GCCGTGGCGG CGTGGTGGTC CGCCCCCCT GGCCTTCTGC TCGGGGTCTG GCTGGTTGCC GGTGCCCTTG GCGCGGTCT TCTTCCTGGT GGCTCTGGGC
                                                                            420
CCGGCCGGTC TCGGGCGTCT CGTGTTCGCT CTTGTGCTGT TCCGGCCGCT CCTTCCTCTT
                                                                            540
CCGCCGCCGC CGCTCCCCGC CCGCTCGTCG CCCTGGCCCG GCCTCCTCCT GGCCGCTGTC
                                                                            600
TCGGGCGGCG GCCTTGGCGC TCCGTTTGGG GCTGCCTCTG GCGCTTCCGG CCCTCGGCCT
                                                                            660
GGGCGCTCTC TTCCGCCTGT GCTGGTGGCC CTCGTGGGCC CCTCCTGGCC TCCGGTGTCC
                                                                            720
TGTGGTCCCC CGGCTGGTGG CCGGGCCGGT TGGGCGGCGG TGGGCGCCGG CGGGTCCTCC GGGCTGCCCT TCTCCGCCGG GGGTCCCGCG CTCCTGCTGT TCCCTGGGCT CTTCTGCCTC
                                                                            840
TCTCCTGGGT GGGTGCTGGG TGCCGGGGTC TCCGGGCTTG CCCCGCGCTG CTGGGCGTTC
                                                                            900
TGCGGTCTTG GGGTTGTCTG TGGCCCCGCT CGTGTCGCCC TCCGTCGCCC GTCGCCGGCC
                                                                            960
TCGTCCCCTC CTGGGTGCGC GGCGGGCTGG TCCTGGCGTT TTGCTCCTTC CTGGGCGTCT
                                                                           1020
TGGGGTGCBG GGCCCBTCCT GCTGCGCCTG GGCGCTGCTG TGCGTCCGTC TGCTGGGGGG
CCGGGGTGGC TGGGCCCTGC TTGCCGCACG ACCCCGGGCC GACCCGAGGC TCGGGGGGCT
GTGTTCTGGC GCTGGTGGGC TTGGGCCCCT CTGGGGGGCTT GGTTTCCTGC TGCGCCTGGG
                                                                           1140
                                                                           1200
CGCTGGCGTC TTGGGGTGCG GGGCCGGGGG GCCGGGGGGC CGCTGTTCGT GGGCCTGGGG
                                                                           1260
GTGCCTGTGG CTGCCGGTTG CCCCGGTTGG TGGCGCCGTC CTGCTGCCGG TCGTTGGCTG
                                                                           1320
GGTCCCCCCG CCCGTTTCCT GGGGTCCGCG TGGGGTGCTC CGGTTCCTCG TGCCGCTGCT
                                                                           1380
GCCTTGTCTT TCCGGCCGTG GCGGCGTGGT GGTCCGCCC CCCTGGCCTT CTGCTCGGGG
TCTGGCTGGT TGCCGGTGC CTTTGCGGGG GTCTTCTTCC TGGTGGCTCT GGGCCCGGCC
GGTCTCGGGC GTCTCTTGTG CTGTTCCGGC CGCTCCTTCC TCTTCCGCCG
                                                                           1440
                                                                           1500
                                                                           1560
CCGCCGCTCC CCGCCCGCTC GTCGCCCTGG CCCGGCCTCC TCCTGGCCGC TGTCTCGGGC
                                                                           1620
GGCGGCCTTG GCGCTCCGTT TGGGGCTGCC TCTGGCGCTT CCGGCCCTCG GCCTGGGCGC
                                                                           1680
TCTCTTCCGC CTGTGCTGGT GGCCCTCGTG GGCCCCTCCT GGCCTCCGGT GTCCTGTGGT
CCCCCGGCTG GTGGCCGGGC CGGTTGGGCG GGCGTGGGCG CCGGCGGGTC CTCCGGGCTG
                                                                           1800
1860
GGGTGGGTGC TGGGTGCCGG GGTCTCCGGG CTTGCCCCGC GCTGCTGGGC GTTCTGCGGT
                                                                           1920
CTTGGGGTTG TCTGTGGCCC CGCTCGTGTC GCCCTCCGTC GCCCGTCGCC GGCCTCGTCC
                                                                          1980
CCTCCTGGGT GCGCGGGG CTGGTCCTGG CGTTTTGCTC CTTCCTGG
                                                                          2028
          (2) INFORMATION FOR SEQ ID NO:1906:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 9 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1906:
GCGGGGCCG
                                                                              9
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(2) INFORMATION FOR SEQ ID NO:1907:

(i) SEQUENCE CHARACTERISTICS:

•	
(A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1907: CGGGGGGC	8
(2) INFORMATION FOR SEQ ID NO:1908: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1908: GCGCGGCGGG C	11
(2) INFORMATION FOR SEQ ID NO:1909: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1909: GCGTCTTGGG GTGCBGGGCC CBTCCTGCTG CGCCTGGGCG CTG	43
(2) INFORMATION FOR SEQ ID NO:1910: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 535 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1910:	
CTGCCCCBGT TTTTGBTCCT CBCBTGCCGT GGGGBGBCB BTGGCTGCCT CCCCGGGGTT TCTGCTGCTT GCTGCTTCTT TCCCGTCTCC CTTCTTTCCC GTCTCCTTT TGCCTCTTTT TGCCTCTTTT TGCCTCTTTT TGCCTCTTTT TGCCTCTTTT TCCCGTCTCC CTCCTGCCCT TCTCGTCCTG CCTTTTCCTG TCTCTGTCCC GCCGTTCCCC CTCCGGGGTC CTCCTGCCCT TGGGGCCTGCC TGGGGGGTG TGGGGGCCG TGGGGGCCG TCTTCTGTGGG CCTTCTGTGGG CCTTCTGTGGGC TGGGGGCCG TGTGGGGCC TGTGGGGC TGTGGGGCT CTTGGGGCT TCTCCCCTTG GCCGCTCCTC TGGCCTCTT CTGGGCCTT CTGGCTCCTT CTGGCCTCTT CTGGCCTCTT CTGGCCTCCT TGGCTGCTC TGGCTCCTT CTGGCCTCCT TGGCTGCTG GCCGCCT TGGCTGCTC TGGCTCCTT CTGGCCTCCT TGGCTCCTT CTGCCTCCT TGGCTGCTG GCTGCC	60 120 180 240 300 360 420 480 535
(2) INFORMATION FOR SEQ ID NO:1911: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1911: CCCCCGGGG	8
(2) INFORMATION FOR SEQ ID NO:1912: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1912: GGGGCCGCTG GG	
 (2) INFORMATION FOR SEQ ID NO:1913: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	12
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1913: GGGGGTGTGG	10

(2) INFORMATION FOR SEQ ID NO:1914: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1914: CTGCCCCBGT TTTTGBTCCT CBCBTGCCGT GGGGBGGBCB BTGG	44
 (2) INFORMATION FOR SEQ ID NO:1915: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 756 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1915: CGGCCCTTCT CACTGAGGC ACCGGCAGT CCTCCATGGG AGGGTTGGGC TTGGCCGGGG CTGCCCGGTG CCTCCTCTTG GCTGGTCCCT CGTTGTCCTT GGGCCCGCT CCCGCTGCTC GGCCTCCGTG TTCTTTGGCC TCTTGCTCCG CCTGCTGTCT TGTCCCGTC CCTCCTCGCT TGCGTTTCCC TCTTCCTTGT CTTCCAGGCC TTCCTCCGCT TCCGCTGCT GGGCCCGCGC CGGGGGGGCG CTCGGCTCCG CGGCTTCCTC CCCGGCTGGG GGGTCCTGGT CTCCGGGGCC TCCGCCGTG GTGGTCTCC GTCCTCGCC CGCCGCGC GTCCGCGTG GGTGGCCTG TCCGCCGTG GGGGCGTCT GGTGCCTCGT CTGCCCCGTG GGGCTCCT GGGCGTGGTG GGGGCGTCT GGTGCCTCGT CTGCCCCGTG GGGCTTCGG CTCGGGGTC TCCGCCCC CTGCCGCTCT GTGCCTCCG GGGCTCCTG TTTTCGCTG CTCGGGGTTC CTTCTCGCC CTGCCCCCG GGTCCCGCC CTGCTGGGCT GCTGCCCTGG GCTTCTGGCC CGTCTGGTTG TCTGTCGGC CTTGTCTCGC TTCTGGCC TCTGTCCTGG GCTTCTGGCC CGTCTGGTTG TCTGTCGGG CTTGTCTCGG CTCTGTCCTGG CCTTCTGGCC CGTCTGGTTG TCTGTCGGG CTTGTCTCGG CTCTGTGCCTGG CTTCTGGCC CGTCTGGTTG TCTGTCGGG CTTGTCTCGG CTCTGTGCTGG CTTCTGGCC CTTCTGGTTG TCTGTCCTGG CTTTCTGCCC TCTGTGCTGG CTTCTTGGCC CTTCTGGTTG TCTGTCTGGG CTTGTCTTGGC CTCTGTGCTGG CTTCTTGGCC CTTCTGGTTG TCTGTCTGG CTTCTGGCC TCTGTGCTGG CTTCTTGGCC CTTCTGGTTG TCTGTCTGG CTTTCTGGCC TCTGTGCTTG	60 120 180 240 300 360 420 480 540 600
GCGCTTCTCT GCCTCCTGCT CCGCCCTCCT GGTGGCTCGG CTGGGGGTGC CCGTGCGGGG GTGGGTGTGG GGTGTTTTCG GGGTCCTCCC CTTCCC (2) INFORMATION FOR SEQ ID NO:1916: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1916:	720 756
GGGCGGGGTC GC (2) INFORMATION FOR SEQ ID NO:1917: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:1917:	12
(2) INFORMATION FOR SEQ ID NO:1918: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1918: GGGCGTGGTG G	11
(2) INFORMATION FOR SEQ ID NO:1919: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1919: CGGCCCTTCT CACTGGAGGC ACCGGGCAGT CCTCCATGGG AGG	43
(2) INFORMATION FOR SEQ ID NO:1920:	.5

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1920: GTTTCATCTT GGCTTTATCC TCTCCCCTTG TTCCTCCCCT CTCCTGCTCT GGRGTCTCCT CTTCCCTCCC TCCCCTGCCG TGTTGTCTGT GGGTGTCGTT TCGCCTTGT TGCCCTGGGC CCTTCCCTGC TGGGGGGAG TTTCATCTTG GGTTTCBTC TGGCTTTBTC CTCTCCCTT GTTCCTCCC TCTCCTGCTC TGGRGTCTCC TCTTCCCTCC CTCCCCTGCC GTGTTGTCTG TGGGTGTCGT TTCGCTCTTG TTGCCCTGGG CCCTTCCCTG CTGGGGGGGG	6 12 18 24 30 30
(2) INFORMATION FOR SEQ ID NO:1921: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1921: GGGGGGAGTT	Ç
(2) INFORMATION FOR SEQ ID NO:1922: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1922: GCCCTGGGCC C	11
(2) INFORMATION FOR SEQ ID NO:1923: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1923: GTTTCATCTT GGCTTTATCC TCTCCCCTTG TTCCTCCCCT CTCCTGCTCT GGRGTCTCCT CTTCCCTCCC TCCCCTGCCG TGTTGTCTGT GGGTGTCGTT TCGCCTTGGTCT TGCCCTGGGC CCTTCCCTGC TGGGGGGGAG TTTCATCTTG G	60 120
(2) INFORMATION FOR SEQ ID NO:1924: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1924: GTTTCBTCTT GGCTTTBTCC TCTCCCCTTG TTCCTCCCCT CTCCTGCTCT GGRGTCTCCT CTTCCCTCCC TCCCCTGCCG TGTTGTCTTG GGGTGTCTTTT TGCCCTGGGC CCTTCCCTGC TGGGGGGGBG TTTCBTCTTG G	60 120 151
(2) INFORMATION FOR SEQ ID NO:1925: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1925: GGGGGBG	7
 (2) INFORMATION FOR SEQ ID NO:1926: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1926: GTGGGTGTCC	10
(2) INFORMATION FOR SEQ ID NO:1927: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 91 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1927: CCGTGTTGTC BGTGGTGCTG CCCGTTTGBG GTBTGGCGCT CCBCCBBTTC CCTTTTCTCC TTGTTTTCCG TTTCTCTTGC CGTCTGTGGT T	60 91
(2) INFORMATION FOR SEQ ID NO:1928: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1928: CCCCGTTTGBG GTBTGGC	17
(2) INFORMATION FOR SEQ ID NO:1929: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1929: GCTCCBCCBB TTCCCTTTTC TCC	23
(2) INFORMATION FOR SEQ ID NO:1930: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1930: TTGTTTTCCG TTTCTCTTG	19
(2) INFORMATION FOR SEQ ID NO:1931: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1931: CCGTCTGTGG TT	12
(2) INFORMATION FOR SEQ ID NO:1932: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1932: CCCGTTTGAG GTATGGC	17
(2) INFORMATION FOR SEQ ID NO:1933: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1933: GCTCCBCCAA TTCCCTTTC TCC	23

(2) INFORMATION FOR SEQ ID NO:1934:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1934: GGGCCCBGCC CCGCCGCCTT TTCTBGCCCC GGCC (2) INFORMATION FOR SEQ ID NO:1935:	34
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1935: GGGCCCBGCC CCGCCGCCTT TTCTBGCCCC GGC	33
(2) INFORMATION FOR SEQ ID NO:1936: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1936: GGGCCCBGCC CCGCCGCCTT TTCTBGCCCC GG	
<pre>(2) INFORMATION FOR SEQ ID NO:1937: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1937:</pre>	32
(2) INFORMATION FOR SEQ ID NO:1938: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	31
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1938: GGGCCCBGCC CCGCCGCTT TTCTBGCCCC (2) INFORMATION FOR SEQ ID NO:1939: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	30
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1939: GGGCCCBGCC CCGCCGCTT TTCTBGCCC (2) INFORMATION FOR SEQ ID NO:1940: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	29
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1940: GGGCCCBGCC CCGCCGCCTT TTCTBGCC (2) INFORMATION FOR SEQ ID NO:1941: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	28

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1941: GGGCCCBGCC CCGCCGCCTT TTCTBGC	27
(2) INFORMATION FOR SEQ ID NO:1942: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1942: GGGCCCBGCC CCGCCGCCTT TTCTBG	26
(2) INFORMATION FOR SEQ ID NO:1943: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1943: GGGCCCBGCC CCGCCGCCTT TTCTB	25
 (2) INFORMATION FOR SEQ ID NO:1944: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	25
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1944: GGGCCCBGCC CCGCCGCTT TTCT (2) INFORMATION FOR SEQ ID NO:1945: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	24
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1945: GGGCCCBGCC CCGCCGCTT TTC (2) INFORMATION FOR SEQ ID NO:1946: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid	23
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1946: GGGCCCBGCC CCGCCGCTT TT (2) INFORMATION FOR SEQ ID NO:1947: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid	22
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1947: GGGCCCBGCC CCGCCGCTT T (2) INFORMATION FOR SEQ ID NO:1948: (i) SEQUENCE CHARACTERISTICS:	21
(A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1948: GGGCCCBGCC CCGCCGCTT (2) INFORMATION FOR SEQ ID NO:1949: (i) SEQUENCE CHARACTERISTICS:	20

(A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1949: GGGCCCBGCC CCGCCGCCT	19
(2) INFORMATION FOR SEQ ID NO:1950: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1950: GGGCCCBGCC CCGCCGCC	18
(2) INFORMATION FOR SEQ ID NO:1951: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1951: GGGCCCBGCC CCGCCGC	17
(2) INFORMATION FOR SEQ ID NO:1952: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1952: GGGCCCBGCC CCGCCG	16
(2) INFORMATION FOR SEQ ID NO:1953: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1953: GGGCCCBGCC CCGCC	15
(2) INFORMATION FOR SEQ ID NO:1954: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1954: GGGCCCBGCC CCGC	14
(2) INFORMATION FOR SEQ ID NO:1955: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1955: GGGCCCBGCC CCG	13
 (2) INFORMATION FOR SEQ ID NO:1956: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1956: 	-

GGGCCCBGCC CC	12
(2) INFORMATION FOR SEQ ID NO:1957: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1957: GGGCCCBGCC C	11
(2) INFORMATION FOR SEQ ID NO:1958: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1958: GGCCCBGCCC CGCCGCCTTT TCTBGCCCCG GC	32
(2) INFORMATION FOR SEQ ID NO:1959: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1959: GCCCBGCCCC GCCGCCTTTT CTBGCCCCGG C	31
(2) INFORMATION FOR SEQ ID NO:1960: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1960: CCCCBGCCCCG CCGCCTTTTC TBGCCCCGGC (2) INFORMATION FOR SEQ ID NO:1961:	30
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1961: CCBGCCCCGC CGCCTTTTCT BGCCCCGGC (2) INFORMATION FOR SEQ ID NO:1962:	29
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1962: CBGCCCCGCC GCCTTTCTB GCCCCGGC	28
(2) INFORMATION FOR SEQ ID NO:1963: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1963: BGCCCCGCCG CCTTTTCTBG CCCCGGC (2) INFORMATION FOR SEQ ID NO:1964: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs	27

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1964: GCCCCGCCGC CTTTTCTBGC CCCGGC	26
(2) INFORMATION FOR SEQ ID NO:1965: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1965: CCCCGCCGCC TTTTCTBGCC CCGGC	25
(2) INFORMATION FOR SEQ ID NO:1966: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1966: CCCGCCGCCCT TTTCTBGCCC CGGC	
(2) INFORMATION FOR SEQ ID NO:1967: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	24
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1967: CCGCCGCCTT TTCTBGCCCC GGC (2) INFORMATION FOR SEQ ID NO:1968: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	23
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1968: CGCCGCCTTT TCTBGCCCCG GC (2) INFORMATION FOR SEQ ID NO:1969: (i) SEQUENCE CHARACTERISTICS:	22
(A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1969: GCCGCCTTTT CTBGCCCCGG C	21
(2) INFORMATION FOR SEQ ID NO:1970: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1970: CCGCCTTTTC TBGCCCCGGC	20
(2) INFORMATION FOR SEQ ID NO:1971: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION OF A PAGE 1971	- -
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1971: CGCCTTTTCT BGCCCCGGC	19

(2) INFORMATION FOR SEQ ID NO:1972: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1972: GCCTTTTCTB GCCCCGGC	18
(2) INFORMATION FOR SEQ ID NO:1973: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1973: CCTTTTCTBG CCCCGGC	17
(2) INFORMATION FOR SEQ ID NO:1974: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1974: CTTTTCTBGC CCCGGC	16
(2) INFORMATION FOR SEQ ID NO:1975: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1975: TTTTCTBGCC CCGGC	15
(2) INFORMATION FOR SEQ ID NO:1976: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1976: TTTCTBGCCC CGGC	14
(2) INFORMATION FOR SEQ ID NO:1977: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1977: TTCTBGCCCC GGC	13
(2) INFORMATION FOR SEQ ID NO:1978: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1978: TCTBGCCCCG GC	12
(2) INFORMATION FOR SEQ ID NO:1979:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 11 base pairs(B) TYPE: nucleic acid	

<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1979: CTBGCCCCGG C</pre>	11
(2) INFORMATION FOR SEQ ID NO:1980: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1980: GCGBGGCTGT CBCCTCGCTG GGCCC	25
(2) INFORMATION FOR SEQ ID NO:1981: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1981: GCGBGGCTGT CBCCTCGCTG GGCC	24
 (2) INFORMATION FOR SEQ ID NO:1982: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1982: 	
GCGBGGCTGT CBCCTCGCTG GGC (2) INFORMATION FOR SEQ ID NO:1983: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1983:	23
GCGBGGCTGT CBCCTCGCTG GG (2) INFORMATION FOR SEQ ID NO:1984: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	22
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1984: GCGBGGCTGT CBCCTCGCTG G (2) INFORMATION FOR SEQ ID NO:1985: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	21
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1985: GCGBGGCTGT CBCCTCGCTG (2) INFORMATION FOR SEQ ID NO:1986: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	20
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1986: GCGBGGCTGT CBCCTCGCT	19

(2) INFORMATION FOR SEQ ID NO:1987: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1987: GCGBGGCTGT CBCCTCGC	18
 (2) INFORMATION FOR SEQ ID NO:1988: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1988: 	
(2) INFORMATION FOR SEQ ID NO:1989: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	17
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1989: GCGBGGCTGT CBCCTC (2) INFORMATION FOR SEQ ID NO:1990: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single</pre>	16
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1990: GCGBGGCTGT CBCCT (2) INFORMATION FOR SEQ ID NO:1991: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs	15
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1991: GCGBGGCTGT CBCC (2) INFORMATION FOR SEQ ID NO:1992: (i) SEQUENCE CHARACTERISTICS:	14
(A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1992: GCGBGGCTGT CBC	13
(2) INFORMATION FOR SEQ ID NO:1993: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1993: GCGBGGCTGT CB	12
(2) INFORMATION FOR SEQ ID NO:1994: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

(2) INFORMATION FOR SEQ ID NO:1995: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1995: GCGBGGCTGT (2) INFORMATION FOR SEQ ID NO:1996: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1996: CGBGGCTGTC BCCTCGCTGG GCCC (2) INFORMATION FOR SEQ ID NO:1997: (i) SEQUENCE DESCRIPTION: SEQ ID NO:1997: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1997: GBGGCTGTCB CCTCGCTGGG CCC (2) INFORMATION FOR SEQ ID NO:1997: GBGGCTGTCB CCTCGCTGGG CCC (2) INFORMATION FOR SEQ ID NO:1998: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1998: (i) SEQUENCE DESCRIPTION: SEQ ID NO:1998: (i) SEQUENCE DESCRIPTION: SEQ ID NO:1998: (ii) SEQUENCE DESCRIPTION: SEQ ID NO:1998:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1996: CGBGGCTGTC BCCTCGCTGG GCCC 24 (2) INFORMATION FOR SEQ ID NO:1997: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1997: GBGGCTGTCB CCTCGCTGGG CCC 23 (2) INFORMATION FOR SEQ ID NO:1998: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1998:	4
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1997: GBGGCTGTCB CCTCGCTGGG CCC 23 (2) INFORMATION FOR SEQ ID NO:1998: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1998:	
<pre>(2) INFORMATION FOR SEQ ID NO:1998: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1998:</pre>	a
(2) INFORMATION FOR SEQ ID NO:1999: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1999: GGCTGTCBCC TCGCTGGGCC C	1
(2) INFORMATION FOR SEQ ID NO:2000: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2000: GCTGTCBCCT CGCTGGGCCC 20)
(2) INFORMATION FOR SEQ ID NO:2001: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2001: CTGTCBCCTC GCTGGGCCC 19	•

(2) INFORMATION FOR SEQ ID NO:2002:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2002: TGTCBCCTCG CTGGGCCC	18
(2) INFORMATION FOR SEQ ID NO:2003: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2003: GTCBCCTCGC TGGGCCC	17
(2) INFORMATION FOR SEQ ID NO:2004: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2004: TCBCCTCGCT GGGCCC	16
(2) INFORMATION FOR SEQ ID NO:2005: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2005: CBCCTCGCTG GGCCC	15
(2) INFORMATION FOR SEQ ID NO:2006: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2006: BCCTCGCTGG GCCC	14
(2) INFORMATION FOR SEQ ID NO:2007: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2007: CCTCGCTGGG CCC	13
(2) INFORMATION FOR SEQ ID NO:2008: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2008: CTCGCTGGGC CC	12
 (2) INFORMATION FOR SEQ ID NO:2009: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2009: TCGCTGGGCC C	11
(2) INFORMATION FOR SEQ ID NO:2010: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2010: CGCTGGGCCCC	10
(2) INFORMATION FOR SEQ ID NO:2011: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2011: GCGCGGCCGT CBTGGCGGCG TCGGGCCGGG C	31
(2) INFORMATION FOR SEQ ID NO:2012: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2012: GCGCGGCCGT CBTGGCGGCG TCGGGCCGGG	30
(2) INFORMATION FOR SEQ ID NO:2013: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2013: GCGCGGCCGT CBTGGCGGCG TCGGGCCGG	29
(2) INFORMATION FOR SEQ ID NO:2014: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2014: GCGCGGCCGT CBTGGCGGCCG	28
(2) INFORMATION FOR SEQ ID NO:2015: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2015: GCGCGGCCGT CBTGGCGGCC	27
(2) INFORMATION FOR SEQ ID NO:2016: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2016: GCGCGGCCGT CBTGGCGGC	26

(2) INFORMATION FOR SEQ ID NO:2017:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2017: GCGCGGCCGT CBTGGCGGCG TCGGG	25
(2) INFORMATION FOR SEQ ID NO:2018: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2018: GCGCGGCCGT CBTGGCGGCG TCGG	24
(2) INFORMATION FOR SEQ ID NO:2019: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2019: GCGCGGCCGT CBTGGCGGCG TCG	23
(2) INFORMATION FOR SEQ ID NO:2020: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2020: GCGCGGCCGT CBTGGCGGCG TC	22
(2) INFORMATION FOR SEQ ID NO:2021: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2021: GCGCGGCCGT CBTGGCGGCG T	21
(2) INFORMATION FOR SEQ ID NO:2022: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2022: GCGCGGCCGT CBTGGCGGCG	20
(2) INFORMATION FOR SEQ ID NO:2023: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2023: GCGCGGCCGT CBTGGCGGC	19
 (2) INFORMATION FOR SEQ ID NO:2024: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2024: GCGCGGCCGT CBTGGCGG	18
(2) INFORMATION FOR SEQ ID NO:2025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2025: GCGCGGCCGT CBTGGCG	17
(2) INFORMATION FOR SEQ ID NO:2026: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2026: GCGCGGCCGT CBTGGC	16
(2) INFORMATION FOR SEQ ID NO:2027: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2027: GCGCGGCCGT CBTGG	15
(2) INFORMATION FOR SEQ ID NO:2028: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2028: GCGCGGCCGT CBTG	14
(2) INFORMATION FOR SEQ ID NO:2029: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2029: GCGCGGCCGT CBT	13
(2) INFORMATION FOR SEQ ID NO:2030: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2030: GCGCGGCCGT CB	12
(2) INFORMATION FOR SEQ ID NO:2031: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (*i) SEQUENCE DESCRIPTION: SEQ ID NO:2031:	12
GCGCGGCCGT C (2) INFORMATION FOR SEQ ID NO:2032: (i) SEQUENCE CHARACTERISTICS:	11

(A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2032: GCGCGGCCGT	10
(2) INFORMATION FOR SEQ ID NO:2033: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2033: CGCGGCCGTC BTGGCGGCCGT CGGGCCGGGC	30
(2) INFORMATION FOR SEQ ID NO:2034: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2034: GCGGCCGTCB TGGCGGCGTC GGGCCGGGC	29
(2) INFORMATION FOR SEQ ID NO:2035: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2035: CGGCCGTCBT GGCGGCGTCG GGCCGGGC	28
(2) INFORMATION FOR SEQ ID NO:2036: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2036: GGCCGTCBTG GCGGCGTCGG GCCGGGC	27
(2) INFORMATION FOR SEQ ID NO:2037: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2037: GCCGTCBTGG CGGCGTCGGG CCGGGC	26
(2) INFORMATION FOR SEQ ID NO:2038: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2038: CCGTCBTGGC GGCGTCGGGC CGGGC	25
 (2) INFORMATION FOR SEQ ID NO:2039: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2039: 	

CGTCBTGGCG GCGTCGGGCC GGGC	24
(2) INFORMATION FOR SEQ ID NO:2040: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2040: GTCBTGGCGG CGTCGGGCCCG GGC	23
(2) INFORMATION FOR SEQ ID NO:2041: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2041: TCBTGGCGGC GTCGGGCCGG GC	22
(2) INFORMATION FOR SEQ ID NO:2042: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2042: CBTGGCGGCG TCGGGCCGGG C	21
(2) INFORMATION FOR SEQ ID NO:2043: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2043: BTGGCGGCGT CGGGCCGGGC	20
(2) INFORMATION FOR SEQ ID NO:2044: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2044: TGGCGGCGTC GGGCCGGGC	19
(2) INFORMATION FOR SEQ ID NO:2045: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2045: GGCGGCGTCG GGCCGGGC	18
(2) INFORMATION FOR SEQ ID NO:2046: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2046: GCGGCGTCGG GCCGGGC	17
(2) INFORMATION FOR SEQ ID NO:2047:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 16 base pairs	

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2047: CGGCGTCGGG CCGGGC	16
(2) INFORMATION FOR SEQ ID NO:2048: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2048: GGCGTCGGGC CGGGC	15
(2) INFORMATION FOR SEQ ID NO:2049: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2049: GCGTCGGGCC GGGC	
 (2) INFORMATION FOR SEQ ID NO:2050: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	14
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2050: CGTCGGGCCG GGC (2) INFORMATION FOR SEQ ID NO:2051: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	13
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2051: GTCGGGCCGG GC (2) INFORMATION FOR SEQ ID NO:2052: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs	12
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2052: TCGGGCCGGG C	11
(2) INFORMATION FOR SEQ ID NO:2053: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2053: CGGGCCGGGC	10
(2) INFORMATION FOR SEQ ID NO:2054: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2054: CCGCBGGCCB GGGCGCCG CCGGCCGGGC CG	32

(2) INFORMATION FOR SEQ ID NO:2055: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2055: CCGCBGGCCB GGGCGCCGCCG CCGGCCGGGC C	31
(2) INFORMATION FOR SEQ ID NO:2056: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2056: CCGCBGGCCB GGGCGCCGC CCGGCCGGGC	30
(2) INFORMATION FOR SEQ ID NO:2057: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2057: CCGCBGGCCB GGGCGCGCCG CCGGCCGGG	29
(2) INFORMATION FOR SEQ ID NO:2058: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2058: CCGCBGGCCB GGGCGCCGC CCGGCCGG	28
(2) INFORMATION FOR SEQ ID NO:2059: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2059: CCGCBGGCCB GGGCGCCG CCGGCCG	27
(2) INFORMATION FOR SEQ ID NO:2060: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2060: CCGCBGGCCB GGGCGCCCC CCGGCC	26
(2) INFORMATION FOR SEQ ID NO:2061: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2061: CCGCBGGCCB GGGCGCCCC CCGGC	25
(2) INFORMATION FOR SEQ ID NO:2062:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid	_ •

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2062: CCGCBGGCCB GGGCGCCCG CCGG	24
(2) INFORMATION FOR SEQ ID NO:2063: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2063: CCGCBGGCCB GGGCGCCGC CCG	23
(2) INFORMATION FOR SEQ ID NO:2064: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2064: CCGCBGGCCB GGGCGCGCCG CC	22
(2) INFORMATION FOR SEQ ID NO:2065: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2065: CCGCBGGCCB GGGCGCCGC C	21
(2) INFORMATION FOR SEQ ID NO:2066: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2066: CCGCBGGCCB GGGCGCCGC	20
(2) INFORMATION FOR SEQ ID NO:2067: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2067: CCGCBGGCCB GGGCGCCC	19
(2) INFORMATION FOR SEQ ID NO:2068: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2068: CCGCCBGGCCB GGGCGCGC	18
(2) INFORMATION FOR SEQ ID NO:2069: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2069: CCGCBGGCCB GGGCGCG	10
COODDOCCD GGGCGCG	17

(2) INFORMATION FOR SEQ ID NO:2070: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2070: CCGCBGGCCB GGGCGC	16
(2) INFORMATION FOR SEQ ID NO:2071: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2071: CCGCBGGCCB GGGCG	15
(2) INFORMATION FOR SEQ ID NO:2072: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2072: CCGCBGGCCB GGGC	14
(2) INFORMATION FOR SEQ ID NO:2073: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2073: CCGCBGGCCB GGG	13
(2) INFORMATION FOR SEQ ID NO:2074: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2074: CCGCBGGCCB GG	12
(2) INFORMATION FOR SEQ ID NO:2075: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2075: CCGCBGGCCB G	11
(2) INFORMATION FOR SEQ ID NO:2076: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2076: CCGCBGGCCB	
(2) INFORMATION FOR SEQ ID NO:2077: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	10

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2077: CCGCBGGCC	9
(2) INFORMATION FOR SEQ ID NO:2078: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2078: CGCBGGCCBG GGCGCCCGC CGGCCGGCCC G	31
(2) INFORMATION FOR SEQ ID NO:2079: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2079: GCBGGCCBGG GCGCCGCC GGCCGGGCCG	30
 (2) INFORMATION FOR SEQ ID NO:2080: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	30
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2080: CBGGCCBGGG CGCGCCGG GCCGGGCCG	29
(2) INFORMATION FOR SEQ ID NO:2081: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2081: BGGCCBGGGC GCGCCGGCCGG CCGGGCCG	28
 (2) INFORMATION FOR SEQ ID NO:2082: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2082: 	
GGCCBGGCG CGCCGCCGC CGGGCCG (2) INFORMATION FOR SEQ ID NO:2083:	27
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2083: 	
GCCBGGGCGC GCCGCCGGCC GGGCCG (2) INFORMATION FOR SEQ ID NO:2084:	26
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 25 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2084: CCBGGGCGG CCGCCGGCCG GGCCG	25

(2) INFORMATION FOR SEQ ID NO:2085:

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2085: CBGGGCGCGC CGCCGGCCGG GCCG 	24
(2) INFORMATION FOR SEQ ID NO:2086: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2086: BGGGCGCGCC GCCGGCCGGG CCG	23
(2) INFORMATION FOR SEQ ID NO:2087: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2087: GGGCGCGCCG CCGGCCGGGC CG	22
(2) INFORMATION FOR SEQ ID NO:2088: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2088: GGCGCGCCGC CGGCCGGGCC G	21
(2) INFORMATION FOR SEQ ID NO:2089: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2089: GCGCGCCGCC GGCCGGGCCG	20
(2) INFORMATION FOR SEQ ID NO:2090: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2090: CGCGCCCGCCG GCCGGGCCG	19
(2) INFORMATION FOR SEQ ID NO:2091: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2091: GCGCCGCCGG CCGGGCCG	18
 (2) INFORMATION FOR SEQ ID NO:2092: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2092: CGCCGCCGGC CGGGCCG	17
(2) INFORMATION FOR SEQ ID NO:2093: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2093: GCCGCCGGCC GGGCCG	16
(2) INFORMATION FOR SEQ ID NO:2094: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2094: CCGCCGGCCG GGCCG	15
(2) INFORMATION FOR SEQ ID NO:2095: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2095: CGCCGGCCGG GCCG	14
(2) INFORMATION FOR SEQ ID NO:2096: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2096: GCCGGCCGGG CCG	13
(2) INFORMATION FOR SEQ ID NO:2097: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2097: CCGGCCGGGC CG	12
(2) INFORMATION FOR SEQ ID NO:2098: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2098: CGGCCGGGCC G	11
(2) INFORMATION FOR SEQ ID NO:2099: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2099: GGCCGGGCCG (2) INFORMATION FOR SEQ ID NO:2100:	10
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2100: GGGCGCBGGC TCCGCB	16
(2) INFORMATION FOR SEQ ID NO:2101: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2101: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGCCC	46
(2) INFORMATION FOR SEQ ID NO:2102: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2102: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGCCC	45
(2) INFORMATION FOR SEQ ID NO:2103: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2103: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGCCC	44
(2) INFORMATION FOR SEQ ID NO:2104: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2104: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGCCC	43
(2) INFORMATION FOR SEQ ID NO:2105: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2105: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGCCC	· 42
(2) INFORMATION FOR SEQ ID NO:2106: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2106: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGCCC	. 41
 (2) INFORMATION FOR SEQ ID NO:2107: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2107: 	

GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGCCC	40
(2) INFORMATION FOR SEQ ID NO:2108: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2108: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGCCC	39
(2) INFORMATION FOR SEQ ID NO:2109: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2109: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGCC	38
(2) INFORMATION FOR SEQ ID NO:2110: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2110: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCCCGC	37
(2) INFORMATION FOR SEQ ID NO:2111: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2111:	σ,
GGGCCCCTGG CTCGGCCCGG CGGCCCGGCT TGCCCG (2) INFORMATION FOR SEQ ID NO:2112: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	36
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2112: GGGCCCCTGG CTCGGCCCGG CGGCCCGGCT TGCCC (2) INFORMATION FOR SEQ ID NO:2113: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	35
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2113: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TGCC (2) INFORMATION FOR SEQ ID NO:2114: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	34
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2114: GGGCCCCTGG CTCGGCCCGG CGGCCCGGCT TGC (2) INFORMATION FOR SEQ ID NO:2115: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs</pre>	33

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2115: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT TG	32
(2) INFORMATION FOR SEQ ID NO:2116: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2116: GGGCCCCTGG CTCGGCCCCG CGGCCCGGCT T	31
 (2) INFORMATION FOR SEQ ID NO:2117: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2117: 	
GGGCCCCTGG CTCGGCCCG CGGCCCGGCT (2) INFORMATION FOR SEQ ID NO:2118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	30
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2118: GGGCCCCTGG CTCGGCCCCG CGGCCCGGC (2) INFORMATION FOR SEQ ID NO:2119: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid	29
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2119: GGGCCCCTGG CTCGGCCCCG CGGCCCGG (2) INFORMATION FOR SEQ ID NO:2120:	28
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2120: GGGCCCCTGG CTCGGCCCCG CGGCCCG	27
(2) INFORMATION FOR SEQ ID NO:2121: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2121:	
GGGCCCCTGG CTCGGCCCG CGGCCC (2) INFORMATION FOR SEQ ID NO:2122: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	26
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2122: GGGCCCCTGG CTCGGCCCCG CGGCC	25

(2) INFORMATION FOR SEQ ID NO:2123: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2123: GGGCCCCTGG CTCGGCCCCG CGGC	24
(2) INFORMATION FOR SEQ ID NO:2124: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2124: GGGCCCCTGG CTCGGCCCCG CGG	23
(2) INFORMATION FOR SEQ ID NO:2125: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2125: GGGCCCCTGG CTCGGCCCCG CG	22
(2) INFORMATION FOR SEQ ID NO:2126: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2126: GGGCCCCTGG CTCGGCCCCG C	21
(2) INFORMATION FOR SEQ ID NO:2127: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2127: GGGCCCCTGG CTCGGCCCCG	20
(2) INFORMATION FOR SEQ ID NO:2128: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2128: GGGCCCCTGG CTCGGCCCC	19
(2) INFORMATION FOR SEQ ID NO:2129: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2129: GGGCCCCTGG CTCGGCCC	18
(2) INFORMATION FOR SEQ ID NO:2130:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 base pairs(B) TYPE: nucleic acid	

<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2130: GGGCCCCTGG CTCGGCC</pre>	17
(2) INFORMATION FOR SEQ ID NO:2131: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (*i) SEQUENCE DESCRIPTION: SEQ ID NO:2131: GGGCCCCTGG CTCGGC	16
(2) INFORMATION FOR SEQ ID NO:2132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2132: GGGCCCCTGG CTCGG	15
(2) INFORMATION FOR SEQ ID NO:2133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2133: GGGCCCCTGG CTCG	14
(2) INFORMATION FOR SEQ ID NO:2134: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2134: GGGCCCCTGG CTC	13
(2) INFORMATION FOR SEQ ID NO:2135: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2135: GGGCCCCTGG CT	12
(2) INFORMATION FOR SEQ ID NO:2136: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2136: GGCCCCTGGC TCGGCCCCGC GGCCCGGCTT GCCCGCCC	45
(2) INFORMATION FOR SEQ ID NO:2137: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2137: GCCCCTGGCT CGGCCCCGCG GCCCGGCTTG CCCGCCCG	
	44

(2) INFORMATION FOR SEQ ID NO:2138: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2138: CCCCTGGCTC GGCCCCGCGG CCCGGCTTGC CCGCCCGGCC CGG	43
(2) INFORMATION FOR SEQ ID NO:2139: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2139: CCCTGGCTCG GCCCCGCGGC CCGGCTTGCC CGCCCGGCCC GG	42
(2) INFORMATION FOR SEQ ID NO:2140: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 41 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2140: CCTGGCTCGG CCCCGCGGCC CGGCTTGCCC GCCCGGCCCG G	41
(2) INFORMATION FOR SEQ ID NO:2141: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2141: CTGGCTCGGC CCCGCGGCCC GGCTTGCCCG CCCGGCCCGG	40
(2) INFORMATION FOR SEQ ID NO:2142: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2142: TGGCTCGGCC CCGCGCCCG GCTTGCCCGC CCGGCCCGG	39
(2) INFORMATION FOR SEQ ID NO:2143: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2143: GGCTCGGCCC CGCGGCCCGG CTTGCCCGCC CGGCCCGG	38
(2) INFORMATION FOR SEQ ID NO:2144: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2144: GCTCGGCCCC GCGGCCCGGC TTGCCCGCCC GGCCCGG	2.5
(2) INFORMATION FOR SEQ ID NO:2145: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	37

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2145: CTCGGCCCCG CGGCCCGGCT TGCCCGCCCG GCCCGG	36
(2) INFORMATION FOR SEQ ID NO:2146: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2146: TCGGCCCCGC GGCCCGGCTT GCCCGCCCGG CCCGG	35
(2) INFORMATION FOR SEQ ID NO:2147: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2147: CGGCCCCGCG GCCCGGCTTG CCCGCCCGGC CCGG	34
 (2) INFORMATION FOR SEQ ID NO:2148: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2148: 	
GGCCCCGCGG CCCGGCTTGC CCGCCCGGCC CGG (2) INFORMATION FOR SEQ ID NO:2149: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	33
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2149: GCCCCGCGGC CCGGCTTGCC CGCCCGGCCC GG (2) INFORMATION FOR SEQ ID NO:2150: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid 	32
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2150: CCCCGCGGCC CGGCTTGCCC GCCCGGCCCG G	31
(2) INFORMATION FOR SEQ ID NO:2151: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2151: CCCGCGGGCCC GGCTTGCCCG CCCGGCCCGG	30
(2) INFORMATION FOR SEQ ID NO:2152: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2152: CCGCGGCCCGG GCTTGCCCGC CCGGCCCGG	29

(2) INFORMATION FOR SEQ ID NO:2153:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2153: CGCGGCCCGG CTTGCCCGCC CGGCCCGG	28
(2) INFORMATION FOR SEQ ID NO:2154: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2154: GCGGCCCGGC TTGCCCGCCC GGCCCGG	27
(2) INFORMATION FOR SEQ ID NO:2155: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2155: CGGCCCGGCT TGCCCGCCCG GCCCGG	26
(2) INFORMATION FOR SEQ ID NO:2156: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2156: GGCCCGGCTT GCCCGCCCGG CCCGG	25
(2) INFORMATION FOR SEQ ID NO:2157: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2157: GCCCGGCTTG CCCGCCCGGC CCGG	24
(2) INFORMATION FOR SEQ ID NO:2158: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2158: CCCGGCTTGC CCGCCCGGCC CGG	23
(2) INFORMATION FOR SEQ ID NO:2159: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2159: CCGGCTTGCC CGCCCGGCCC GG	22
 (2) INFORMATION FOR SEQ ID NO:2160: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	22

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2160: CGGCTTGCCC GCCCGGCCCG G	21
(2) INFORMATION FOR SEQ ID NO:2161: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2161: GGCTTGCCCG CCCGGCCCGG	20
(2) INFORMATION FOR SEQ ID NO:2162: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2162: GCTTGCCCGC CCGGCCCGG	19
(2) INFORMATION FOR SEQ ID NO:2163: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2163: CTTGCCCGCC CGGCCCGG	18
(2) INFORMATION FOR SEQ ID NO:2164: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2164: TTGCCCGCCC GGCCCGG	17
(2) INFORMATION FOR SEQ ID NO:2165: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2165: TGCCCGCCCG GCCCGG	16
(2) INFORMATION FOR SEQ ID NO:2166: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2166: GCCCGCCCGG CCCGG	15
(2) INFORMATION FOR SEQ ID NO:2167: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2167:	13
CCCGCCCGGC CCGG (2) INFORMATION FOR SEQ ID NO:2168: (i) SEQUENCE CHARACTERISTICS:	14
(1) OBCODIOD CHARACTERITOTICS.	

(A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2168: CCGCCCGGCC CGG	13
(2) INFORMATION FOR SEQ ID NO:2169: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2169: CGCCCCGGCCC GG	12
(2) INFORMATION FOR SEQ ID NO:2170: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2170: GCCCGGCCCG G	11
(2) INFORMATION FOR SEQ ID NO:2171: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2171: GGCGGGGGGCG GCGCCCTG GCTCGCCTBG GGCCCC	36
(2) INFORMATION FOR SEQ ID NO:2172: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2172: GGCGGGGGCG GCGCCCTG GCTCGCCTBG GGCCC	35
(2) INFORMATION FOR SEQ ID NO:2173: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2173: GGCGGGGGGCG GCGCCCTG GCTCGCCTBG GGCC	34
(2) INFORMATION FOR SEQ ID NO:2174: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2174: GGCGGGGGGCG GCGCCCTG GCTCGCCTBG GGC	33
 (2) INFORMATION FOR SEQ ID NO:2175: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2175: 	

GGCGGGGGCG GCGCCCTG GCTCGCCTBG GG	32
(2) INFORMATION FOR SEQ ID NO:2176: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2176: GGCGGGGGCG GCGCCCTG GCTCGCCTBG G	31
(2) INFORMATION FOR SEQ ID NO:2177: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2177: GGCGGGGGGCG GCGCCCTG GCTCGCCTBG	30
(2) INFORMATION FOR SEQ ID NO:2178: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2178: GGCGGGGGGCG GCGCCCTG GCTCGCCTB	29
(2) INFORMATION FOR SEQ ID NO:2179: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2179: GGCGGGGGGCG GCGCCCTG GCTCGCCT (2) INFORMATION FOR SEQ ID NO:2180:	28
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2180: GGCGGGGGCG GCGCCCTG GCTCGCC (2) INFORMATION FOR SEQ ID NO:2181: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	27
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2181: GGCGGGGGCG GCGCCCTG GCTCGC (2) INFORMATION FOR SEQ ID NO:2182:	26
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2182: GGCGGGGGCG GCGCCTG GCTCG (2) INFORMATION FOR SEQ ID NO:2183: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs	25

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2183: GGCGGGGGCG GCGCCTG GCTC	24
(2) INFORMATION FOR SEQ ID NO:2184: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2184: GGCGGGGGGCG GCGCCCTG GCT	23
(2) INFORMATION FOR SEQ ID NO:2185: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2185: GGCGGGGGGCG GCGCCCTG GC	22
(2) INFORMATION FOR SEQ ID NO:2186: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2186: GGCGGGGGGGG GCGCCCTG G	21
(2) INFORMATION FOR SEQ ID NO:2187: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2187: GGCGGGGGGCG GCGCGCCTG	20
(2) INFORMATION FOR SEQ ID NO:2188: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2188: GGCGGGGGCG GCGCGCCT	19
(2) INFORMATION FOR SEQ ID NO:2189: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2189: GGCGGGGGCG GCGCCC	18
 (2) INFORMATION FOR SEQ ID NO:2190: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2190: 	
GGCGGGGGC GCGCCC	17

(2) INFORMATION FOR SEQ ID NO:2191: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2191: GGCGGGGGCG GCGCG	16
(2) INFORMATION FOR SEQ ID NO:2192: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2192: GGCGGGGGGG GCGC	15
(2) INFORMATION FOR SEQ ID NO:2193: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2193: GGCGGGGGGCG GCGG	14
(2) INFORMATION FOR SEQ ID NO:2194: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2194: GGCGGGGGGCG GCG	13
(2) INFORMATION FOR SEQ ID NO:2195: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2195: GGCGGGGGGCG GC	12
(2) INFORMATION FOR SEQ ID NO:2196: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2196: GGCGGGGGGCG G	11
(2) INFORMATION FOR SEQ ID NO:2197: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2197: GCGGGGGGCGG CGGCGCCTGG CTCGCCTBGG GCCCC	35
(2) INFORMATION FOR SEQ ID NO:2198:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 34 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2198: CGGGGGCGGC GGCGCCTGGC TCGCCTBGGG CCCC	34
(2) INFORMATION FOR SEQ ID NO:2199: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2199: GGGGGCGGCG GCGCCTGGCT CGCCTBGGGC CCC	33
(2) INFORMATION FOR SEQ ID NO:2200: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2200: GGGGCGGCGG CGCCTGGCTC GCCTBGGGCC CC	32
(2) INFORMATION FOR SEQ ID NO:2201: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2201: GGGCGGCGGC GCCTGGCTCG CCTBGGGCCC C	31
(2) INFORMATION FOR SEQ ID NO:2202: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2202: GGCGGCGGCG CCTGGCTCGC CTBGGGCCCC	30
(2) INFORMATION FOR SEQ ID NO:2203: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2203: GCGGCGGCGC CTGGCTCGCC TBGGGCCCC	29
(2) INFORMATION FOR SEQ ID NO:2204: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2204: CGGCGGCGCC TGGCTCGCCT BGGGCCCC	28
(2) INFORMATION FOR SEQ ID NO:2205: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2205: GGCGGCGCCT GGCTCGCCTB GGGCCCC	0.7

(2) INFORMATION FOR SEQ ID NO:2206: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2206: GCGGCGCCTG GCTCGCCTBG GGCCCC	26
(2) INFORMATION FOR SEQ ID NO:2207: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2207: CGGCGCCTGG CTCGCCTBGG GCCCC	25
(2) INFORMATION FOR SEQ ID NO:2208: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2208:	
GGCGCCTGGC TCGCCTBGGG CCCC (2) INFORMATION FOR SEQ ID NO:2209: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2209:	24
(2) INFORMATION FOR SEQ ID NO:2210: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	23
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2210: CGCCTGGCTC GCCTBGGGCC CC (2) INFORMATION FOR SEQ ID NO:2211: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: GEO ID NO 2011	22
<pre>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2211: GCCTGGCTCG CCTBGGGCCC C (2) INFORMATION FOR SEQ ID NO:2212: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2212:</pre>	21
CCTGGCTCGC CTBGGGCCCC (2) INFORMATION FOR SEQ ID NO:2213: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	20

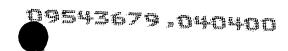
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2213: CTGGCTCGCC TBGGGCCCC	19
(2) INFORMATION FOR SEQ ID NO:2214: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2214: TGGCTCGCCT BGGGCCCC	18
(2) INFORMATION FOR SEQ ID NO:2215: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2215: GGCTCGCCTB GGGCCCC	17
(2) INFORMATION FOR SEQ ID NO:2216: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2216: GCTCGCCTBG GGCCCC	16
(2) INFORMATION FOR SEQ ID NO:2217: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2217: CTCGCCTBGG GCCCC	
(2) INFORMATION FOR SEQ ID NO:2218: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2218: TCGCCTBGGG CCCC	15
(2) INFORMATION FOR SEQ ID NO:2219: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:2219:	14
CGCCTBGGGC CCC (2) INFORMATION FOR SEQ ID NO:2220: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (**i) SEQUENCE DESCRIPTION: SEQ ID NO:2220:	13
GCCTBGGGCC CC (2) INFORMATION FOR SEQ ID NO:2221:	12

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2221: CCTBGGGCCC C	11
(2) INFORMATION FOR SEQ ID NO:2222: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2222: CTBGGGCCCC (2) INFORMATION FOR SEQ ID NO:2223:	10
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2223: GGGTGGGCBC GGCGCC	. 17
(2) INFORMATION FOR SEQ ID NO:2224: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2224:	1,
GGTCGGCGBB GBGCTCGTCG TGGC (2) INFORMATION FOR SEQ ID NO:2225: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	24
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2225: GGTCGGCGBB GBGCTCGTCG TGG (2) INFORMATION FOR SEQ ID NO:2226: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs 	23
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2226: GGTCGGCGBB GBGCTCGTCG TG	22
(2) INFORMATION FOR SEQ ID NO:2227: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2227: GGTCGGCGBB GBGCTCGTCG T	21
 (2) INFORMATION FOR SEQ ID NO:2228: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2228: GGTCGGCGBB GBGCTCGTCG	20
(2) INFORMATION FOR SEQ ID NO:2229: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2229: GGTCGGCGBB GBGCTCGTC	19
(2) INFORMATION FOR SEQ ID NO:2230: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2230: GGTCGGCGBB GBGCTCGT	18
(2) INFORMATION FOR SEQ ID NO:2231: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2231: GGTCGGCGBB GBGCTCG	17
(2) INFORMATION FOR SEQ ID NO:2232: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2232: GGTCGGCGBB GBGCTC	16
(2) INFORMATION FOR SEQ ID NO:2233: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2233: GGTCGGCGBB GBGCT	15
(2) INFORMATION FOR SEQ ID NO:2234: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2234: GGTCGGCGBB GBGC	14
(2) INFORMATION FOR SEQ ID NO:2235: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2235: GGTCGGCGBB GBG	13
(2) INFORMATION FOR SEQ ID NO:2236:(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2236: GGTCGGCGBB GB	12
(2) INFORMATION FOR SEQ ID NO:2237: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2237: GGTCGGCGBB G	11
(2) INFORMATION FOR SEQ ID NO:2238: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2238: GTCGGCGBBG BGCTCGTCGT GGC	23
(2) INFORMATION FOR SEQ ID NO:2239: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2239: TCGGCGBBGB GCTCGTCGTG GC	22
(2) INFORMATION FOR SEQ ID NO:2240: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2240: CGGCGBBGBG CTCGTCGTGG C	21
(2) INFORMATION FOR SEQ ID NO:2241: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2241: GGCGBBGBGC TCGTCGTGGC	20
(2) INFORMATION FOR SEQ ID NO:2242: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2242: GCGBBGBGCT CGTCGTGGC	19
(2) INFORMATION FOR SEQ ID NO:2243: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2243:	

CGBBGBGCTC GTCGTGGC	18
(2) INFORMATION FOR SEQ ID NO:2244: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2244: GBBGBGGCTCG TCGTGGC	17
(2) INFORMATION FOR SEQ ID NO:2245: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2245: BBGBGCTCGT CGTGGC	16
(2) INFORMATION FOR SEQ ID NO:2246: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2246: BGBGCTCGTC GTGGC	15
(2) INFORMATION FOR SEQ ID NO:2247: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2247: GBGCTCGTCG TGGC	14
(2) INFORMATION FOR SEQ ID NO:2248: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2248: BGCTCGTCGT GGC	13
(2) INFORMATION FOR SEQ ID NO:2249: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2249: GCTCGTCGTG GC	12
(2) INFORMATION FOR SEQ ID NO:2250: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2250: CTCGTCGTGGG C	11
(2) INFORMATION FOR SEQ ID NO:2251:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 10 base pairs	11



(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2251: TCGTCGTGGC	10
(2) INFORMATION FOR SEQ ID NO:2252: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2252: GGGGCCCCGC GCCGCCCCCC	20
(2) INFORMATION FOR SEQ ID NO:2253: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2253: GGGGCCCCGC GCCGCCCGC	19
(2) INFORMATION FOR SEQ ID NO:2254: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2254: GGGGCCCCGC GCCGCCCG	18
(2) INFORMATION FOR SEQ ID NO:2255: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2255: GGGGCCCCGC GCCGCCC	17
(2) INFORMATION FOR SEQ ID NO:2256: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2256: GGGGCCCCGCC GCCGCC	16
(2) INFORMATION FOR SEQ ID NO:2257: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2257: GGGGCCCCGC	15
(2) INFORMATION FOR SEQ ID NO:2258: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2258: GGGGCCCCGC GCCG	14
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(2) INFORMATION FOR SEQ ID NO:2259:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 13 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2259: GGGGCCCCGC GCC	13
(2) INFORMATION FOR SEQ ID NO:2260: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2260: GGGGCCCCGC GC	12
(2) INFORMATION FOR SEQ ID NO:2261: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2261: GGGCCCCGCC CCGCCC	19
(2) INFORMATION FOR SEQ ID NO:2262: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2262: GGCCCCGCGC CGCCCCC	18
(2) INFORMATION FOR SEQ ID NO:2263: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2263: GCCCCGCGCC GCCCGCC	17
(2) INFORMATION FOR SEQ ID NO:2264: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2264: CCCCCGCGCCC	16
(2) INFORMATION FOR SEQ ID NO:2265: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2265: CCCGCGCCCCC	15
(2) INFORMATION FOR SEQ ID NO:2266:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2266: CCGCGCCCGCC CGCC	14
(2) INFORMATION FOR SEQ ID NO:2267: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2267: CGCGCCCGCCC GCC	13
(2) INFORMATION FOR SEQ ID NO:2268: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2268: GCGCCGCCCC CC	12
(2) INFORMATION FOR SEQ ID NO:2269: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2269: CGCCGCCCCCC C	11
(2) INFORMATION FOR SEQ ID NO:2270: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2270: GCCGCCCGCC	10
(2) INFORMATION FOR SEQ ID NO:2271: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2271: GGGGCGCGCG GGGCCGCGG G	21
(2) INFORMATION FOR SEQ ID NO:2272: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2272: GGCGGGGBGC GGCBGGCCC	26
(2) INFORMATION FOR SEQ ID NO:2273: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2273:	
GGCGCGTCGC CGTCGCCCCB GTCGGGCTCG CGC	33

(2) INFORMATION FOR SEQ ID NO:2274: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2274: GCGCGGGCCBB CBGCGBGCCG GGCGCG	26
(2) INFORMATION FOR SEQ ID NO:2275: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2275: GCGCBCGGGC CCBCCTGCGC GGGC	24
(2) INFORMATION FOR SEQ ID NO:2276: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2276: GGGCGGGGTG GGCTGCCCTG CGGCCGCC	28
(2) INFORMATION FOR SEQ ID NO:2277: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2277: GGGCTGCTGC GCGGCGGCTC CGGCGA	26
(2) INFORMATION FOR SEQ ID NO:2278: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2278: CTCCCGGGGCG GGGCCGGGGG	25
(2) INFORMATION FOR SEQ ID NO:2279: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2279: GGGCTGCCGC GGTCCGGGCC CCTCTTGCCG GCG	33
(2) INFORMATION FOR SEQ ID NO:2280: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2280: GCGCTCGCGC CGCTGCCGG	19
 (2) INFORMATION FOR SEQ ID NO:2281: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2281: GCGCCGCTTG GCCTTGTCGC GGC	23
(2) INFORMATION FOR SEQ ID NO:2282: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2282: GCTGCTCCBC GCGCTGG	17
(2) INFORMATION FOR SEQ ID NO:2283: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2283: GCCGGBGGCC GGCCBGGTCC CGCG	24
(2) INFORMATION FOR SEQ ID NO:2284: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2284: CCCCGGCGGCC GGCBGGBBGG GCGGGCTGGG C	31
(2) INFORMATION FOR SEQ ID NO:2285: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2285: GTCTCTCCCG CCCCGGCCGC GCG	
(2) INFORMATION FOR SEQ ID NO:2286: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2286:	23
GGGCGTCCGC TCCGGGCCGT CGGG (2) INFORMATION FOR SEQ ID NO:2287: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2287:	24
GCGGGCACGC GGCGGCTCTG GCGTCGGC (2) INFORMATION FOR SEQ ID NO:2288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 681 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	28
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2288: GGTGBCBTTG BGCBTGTCGG CGCGGTCCCG TTBBGBGTGG GCCCGCCAGC CCAGCCACTC CACTTGGGGG CGGGTGGCCA GCACGAACAG CACCCAGAGG AAGGGGGGGC GCCCAGAAGG GCAGCCCGCA GGCCAGGATC AGGTCTGCTG CGGCCGGAGA TAATGGCATT CACCACGCGG	60 120 180

CGGCCCAGCG CACGCCGCGC ATCCGGCCCG GGTTCTGACC TGCAGCCCCC GTCTCCTTGG CATTCCTGGG CCCCAGTCAC TCCTCTCCCT GCCCCCCTTG CTGGGGCAGG GACGGGGTGB CBTTGBGCBT GTCGGCGCG TCCCGTTBBG BGTGGGCCCG CCAGCCCAGC CACTCCACTT GGGGGCGGGT GGCCAGCACC AACAGCACCC AGAGGAAAGGG GGGCGGCCCA GAAGGGCAGC CCGCAGGCCA GGATCAGGTC TGCTGCGGCC GGAGATAATG GCATTCACCA CGCGGCGGCC CAGCGCACCC GTCACTCCTC TCCCTGCCCC CCTTGCTGCG CCCCGTCTC CTTGGCATTC CTGGGCCCCA GTCACTCCTC TCCCTGCCCC CCTTGCTGGG GCAGGGACGG CCGTGTTGTC BGTGGTGCTG CCCGTTTGBG GTBTGGCGCT CCBCCBBTTC CCTTTCTCC TTGTTTTCCG	240 300 360 420 480 540 600 660 681
(2) INFORMATION FOR SEQ ID NO:2289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2289: GGTGBCBTTG BGCBTGTCGG CGC	23
(2) INFORMATION FOR SEQ ID NO:2290: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2290: GGTCCCGTTB BGBGTGGGCC C	21
(2) INFORMATION FOR SEQ ID NO:2291: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2291: GCCAGCCCAG CCACTCCACT TGGGGGC	
 (2) INFORMATION FOR SEQ ID NO:2292: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:2292. 	27
GGGTGGCCAG CACGAACAGC ACCCAGAGGA AGGGGGGC (2) INFORMATION FOR SEQ ID NO:2293: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2293:	38
GGCCCAGAAG GGCAGCCCGC AGGCCAGGAT CAGGTCTGCT GCGGCC (2) INFORMATION FOR SEQ ID NO:2294: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	46
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2294: GGAGATAATG GCATTCACCA CGCGGC (2) INFORMATION FOR SEQ ID NO:2295: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid	26

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2295: GGCCCAGCGC ACGCCGCGCA TCCGGCCC	28
(2) INFORMATION FOR SEQ ID NO:2296: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2296: GGGTTCTGAC CTGCAGCCCC C	21
(2) INFORMATION FOR SEQ ID NO:2297: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2297: GTCTCCTTGG CATTCCTGGG CCC	23
(2) INFORMATION FOR SEQ ID NO:2298: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2298: CAGTCACTCC TCTCCCTGCC CCC	
(2) INFORMATION FOR SEQ ID NO:2299: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2299: CTTGCTGGGG CAGGGACGG	23
(2) INFORMATION FOR SEQ ID NO:2300: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2300: GGTGBCBTTG BGCBTGTCGG CGC	19
 (2) INFORMATION FOR SEQ ID NO:2301: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:2301: 	23
GGTCCCGTTB BGBGTGGCC C (2) INFORMATION FOR SEQ ID NO:2302: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	21
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2302: GCCAGCCCAG CCACTCCACT TGGGGGC	27

(2) INFORMATION FOR SEQ ID NO:2303: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2303: GGGTGGCCAG CACGAACAGC ACCCAGAGGA AGGGGGGCC	38
(2) INFORMATION FOR SEQ ID NO:2304: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 46 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2304: GGCCCAGAAG GGCAGCCCGC AGGCCAGGAT CAGGTCTGCT GCGGCC	46
(2) INFORMATION FOR SEQ ID NO:2305: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2305: GGAGATAATG GCATTCACCA CGCGGC	26
(2) INFORMATION FOR SEQ ID NO:2306: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2306: GGCCCAGCGC ACGCCGCGCA TCCGGCCC	28
(2) INFORMATION FOR SEQ ID NO:2307: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2307: GGGTTCTGAC CTGCAGCCCC C	21
(2) INFORMATION FOR SEQ ID NO:2308: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2308: GTCTCCTTGG CATTCCTGGG CCC	23
(2) INFORMATION FOR SEQ ID NO:2309: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2309: CAGTCACTCC TCTCCCTGCC CCC	23
(2) INFORMATION FOR SEQ ID NO:2310: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2310: CTTGCTGGGG CAGGGACGG	19
(2) INFORMATION FOR SEQ ID NO:2311: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2311: CCGTGTTGTC BGTGGTGCTG	20
(2) INFORMATION FOR SEQ ID NO:2312: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2312: CCCGTTTGBG GTBTGGC	
(2) INFORMATION FOR SEQ ID NO:2313: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	17
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2313: GCTCCBCCBB TTCCCTTTTC TCC	23
(2) INFORMATION FOR SEQ ID NO:2314: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2314: TTGTTTTCCG TTTCTCTTG	19
(2) INFORMATION FOR SEQ ID NO:2315: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2315:	
(2) INFORMATION FOR SEQ ID NO:2316: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2316:	12
CCCGGCCCCG CCTCGTGCC (2) INFORMATION FOR SEQ ID NO:2317: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	19
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2317: CGTCCBTGCC GCGGGCCC	18

(2) INFORMATION FOR SEQ ID NO:2318:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2318: GCCCCGCTGC TTGGGCTGCT CTGCCGGG	28
(2) INFORMATION FOR SEQ ID NO:2319: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2319: TCTGTGCTCC TCTCGCCTGG G	21
(2) INFORMATION FOR SEQ ID NO:2320: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2320: TGGTGGGGGTG GGTCTTGGTG G	21
(2) INFORMATION FOR SEQ ID NO:2321: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2321: CTGTCCCTGG TCCTGTG	17
(2) INFORMATION FOR SEQ ID NO:2322: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2322: GGTCCCGCTT CTTC	14
(2) INFORMATION FOR SEQ ID NO:2323: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2323: GGGGTTGTTG TTGGTCTGG	19
(2) INFORMATION FOR SEQ ID NO:2324: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2324: TGTCCTCTTT CTGC	14
(2) INFORMATION FOR SEQ ID NO:2325: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2325: GCCTCGGGCC TCCC	14
(2) INFORMATION FOR SEQ ID NO:2326: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2326: GGCTGGGGGTC TGCGT	15
(2) INFORMATION FOR SEQ ID NO:2327: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2327: GGCCGGGGGT CGGTGGGTCC GCTG	24
(2) INFORMATION FOR SEQ ID NO:2328: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2328: GGGCTGGGGT GCTGGCTTGG GG	22
(2) INFORMATION FOR SEQ ID NO:2329: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2329: GGGGCTGGGGC CCTGGGCC	18
(2) INFORMATION FOR SEQ ID NO:2330: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2330: GCCTGGGTGG GCTTGGGGGGC	20
(2) INFORMATION FOR SEQ ID NO:2331: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2331: GCTGGGTCTG TGCTGTTGCC	20
(2) INFORMATION FOR SEQ ID NO:2332: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2332: GTTGTGTGGGG GGGCC	15
(2) INFORMATION FOR SEQ ID NO:2333:(i) SEQUENCE CHARACTERISTICS:	

	(A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear xi) SEQUENCE DESCRIPTION: SEQ ID NO:2333: CGG GGGGCCTCTG GGCTGTC	27
(2	(2) INFORMATION FOR SEQ ID NO:2334: i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear xi) SEQUENCE DESCRIPTION: SEQ ID NO:2334: GGC CCCC	14
(2	(2) INFORMATION FOR SEQ ID NO:2335: i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear xi) SEQUENCE DESCRIPTION: SEQ ID NO:2335: CCC CTCC	14
(2	(2) INFORMATION FOR SEQ ID NO:2336: i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear xi) SEQUENCE DESCRIPTION: SEQ ID NO:2336: CCT TTCC	14
(2	(2) INFORMATION FOR SEQ ID NO:2337: i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear xi) SEQUENCE DESCRIPTION: SEQ ID NO:2337: AGA CAGAGA	16
(2	(2) INFORMATION FOR SEQ ID NO:2338: i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear xi) SEQUENCE DESCRIPTION: SEQ ID NO:2338: IGG GCTC	14
(2	(2) INFORMATION FOR SEQ ID NO:2339: i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear xi) SEQUENCE DESCRIPTION: SEQ ID NO:2339: CTC CCCC	14
	(2) INFORMATION FOR SEQ ID NO:2340: i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

CCCGGCCCCG CCBCGBBCC	19
(2) INFORMATION FOR SEQ ID NO:2341: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2341: CCCCGGCCCCG CCBCG	15
(2) INFORMATION FOR SEQ ID NO:2342: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2342: CCCCGGCCCCG CCBCGBBCC	19
(2) INFORMATION FOR SEQ ID NO:2343: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2343: CCCCGGCCCCCG CCBCG	15
(2) INFORMATION FOR SEQ ID NO:2344: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2344: CCCGBCCCCG CCTCBBG	17
(2) INFORMATION FOR SEQ ID NO:2345: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2345: CCCCGBCCCCG CCTC	14
(2) INFORMATION FOR SEQ ID NO:2346: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2346: CCGGCCCCGC CTC	13
(2) INFORMATION FOR SEQ ID NO:2347: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2347: CCCCGBBCCCG CBTBGTGCC	19
(2) INFORMATION FOR SEQ ID NO:2348:(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 13 base pairs	19

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2348: CCCCGCBTBGT GCC	13
(2) INFORMATION FOR SEQ ID NO:2349: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2349: CCCCGGBCCCB CCBBGTGCC	19
(2) INFORMATION FOR SEQ ID NO:2350: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2350: CBGBBCCCGC CTCGTGCC	18
(2) INFORMATION FOR SEQ ID NO:2351: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2351: CCCGCCTCGT GCC	13
(2) INFORMATION FOR SEQ ID NO:2352: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2352: CCGGCBCCGC CTCBTGCC	18
(2) INFORMATION FOR SEQ ID NO:2353: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2353: CCGGCCCCGC CBCBTGCC	18
(2) INFORMATION FOR SEQ ID NO:2354: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2354: CCCGBCCCCG BCTCG	
<pre>(2) INFORMATION FOR SEQ ID NO:2355: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2355:</pre>	15
CCCGGCCBCG BCTCG	15

(2) INFORMATION FOR SEQ ID NO:2356: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2356: CCCGGCCCCBG CCTBG	15
(2) INFORMATION FOR SEQ ID NO:2357: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2357: CCCGGCBCBG BCTCGTBCC	19
(2) INFORMATION FOR SEQ ID NO:2358: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2358: CCCGGCCCCCG CCBCG	15
(2) INFORMATION FOR SEQ ID NO:2359: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2359: CCCGGCCCCG CCBCG	15
(2) INFORMATION FOR SEQ ID NO:2360: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2360: TCCBTGCCGC GGGC	14
(2) INFORMATION FOR SEQ ID NO:2361: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2361: TCCBTGCCBC GGGCC	15
(2) INFORMATION FOR SEQ ID NO:2362: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2362: TCCBTGCCBC GGGCC	
(2) INFORMATION FOR SEQ ID NO:2363: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid	15

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(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2363: TCCBTGCCBC BGGCC	15
(2) INFORMATION FOR SEQ ID NO:2364: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2364: GTCCBTGBCG CGG	. 13
(2) INFORMATION FOR SEQ ID NO:2365: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2365: TCCBTGBCGC GGG	13
(2) INFORMATION FOR SEQ ID NO:2366: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2366: TCTGBGCTCC TCTBBCCTGG G	21
(2) INFORMATION FOR SEQ ID NO:2367: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2367: CTGTGCBCCT BBCBCCTGGG	20
(2) INFORMATION FOR SEQ ID NO:2368: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2368: TGTGBTCCBC TBGBCTGGG	10
 (2) INFORMATION FOR SEQ ID NO:2369: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:2369: 	19
(2) INFORMATION FOR SEQ ID NO:2370: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	19
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2370: TGCTCCTCBC BBCTGGG	17

(2) INFORMATION FOR SEQ ID NO:2371: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2371: CTCCTCTBGC CTGG	14
(2) INFORMATION FOR SEQ ID NO:2372: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2372: GTGCTCCBBT CBBCTGGG	18
(2) INFORMATION FOR SEQ ID NO:2373: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2373: GTGCBCCBBT CBCCTGGG	18
(2) INFORMATION FOR SEQ ID NO:2374: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2374: TCTGTGCBCC TCTBGBCT	18
(2) INFORMATION FOR SEQ ID NO:2375: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2375: TBBTCCTBBC BCCTGG	16
(2) INFORMATION FOR SEQ ID NO:2376: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2376: TGTGCTBBTC BCBCBTGGG	19
 (2) INFORMATION FOR SEQ ID NO:2377: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (×i) SEQUENCE DESCRIPTION: SEQ ID NO:2377: 	1.3
GTGCBCCBCT CBCCTG (2) INFORMATION FOR SEQ ID NO:2378: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: aircle	16

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2378:	
CTGTGCBCCT CTC	13
(2) INFORMATION FOR SEQ ID NO:2379: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2379: CBGTGCBCCB CTCBCCTG	. 18
(2) INFORMATION FOR SEQ ID NO:2380: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2380: GTGCBCCBCT CBCCTG	16
(2) INFORMATION FOR SEQ ID NO:2381: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2381: CBCCTCTCBC CTGGG	15
(2) INFORMATION FOR SEQ ID NO:2382: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2382: CCTCTCBCCT GGG	
 (2) INFORMATION FOR SEQ ID NO:2383: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	13
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2383: GCTCCBCTCG CCT	13
(2) INFORMATION FOR SEQ ID NO:2384: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2384: TGCTCCTCBC GCC	13
(2) INFORMATION FOR SEQ ID NO:2385: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (**i) SEQUENCE DESCRIPTION: SEQ ID NO:2385: GTTGTTGBTC TGG	1.0
	13

(2) INFORMATION FOR SEQ ID NO:2386:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2386: GGTTGBBBTT GGTCTTGG	18
(2) INFORMATION FOR SEQ ID NO:2387: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2387: GGTTGTTGBT GBTCTG	16
(2) INFORMATION FOR SEQ ID NO:2388: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2388: GGGTTBBBGT TGBTCTGG	18
(2) INFORMATION FOR SEQ ID NO:2389: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2389: GGGTTBBBGT TGBTCTGG	18
(2) INFORMATION FOR SEQ ID NO:2390: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2390: TTGTTGTBGB TCTGG	15
(2) INFORMATION FOR SEQ ID NO:2391: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2391: GGGTBGBBGB GTCCGCTG	18
(2) INFORMATION FOR SEQ ID NO:2392: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2392: GGGTCBGBGG BTCBGCTG	18
 (2) INFORMATION FOR SEQ ID NO:2393: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2393: GGGTBGGTGG GTC	13
(2) INFORMATION FOR SEQ ID NO:2394: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2394: GGGTCGGBGG GTCBGC	16
(2) INFORMATION FOR SEQ ID NO:2395: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2395: CCTGGGTTGGG CTT	13
(2) INFORMATION FOR SEQ ID NO:2396: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2396: GGGTGGGCTT GGG	13
(2) INFORMATION FOR SEQ ID NO:2397: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2397: CCTGGGTGGG BBTGGG	16
(2) INFORMATION FOR SEQ ID NO:2398: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2398: CCTGGBTGGG CBTGGG	16
(2) INFORMATION FOR SEQ ID NO:2399: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2399:	
GCCTGBGTGB BCTTGGG (2) INFORMATION FOR SEQ ID NO:2400: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	17
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2400: CCCAVGVCCV CCCAGGC (2) INFORMATION FOR SEQ ID NO:2401:	17
(i) SEQUENCE CHARACTERISTICS:	

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(A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2401: AGCCCACCCA GGC	13
(2) INFORMATION FOR SEQ ID NO:2402: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2402: BCCTGGGTGG GCTB	14
(2) INFORMATION FOR SEQ ID NO:2403: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2403: GGTGGGCTTG GG	12
(2) INFORMATION FOR SEQ ID NO:2404: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2404: CCBBGGTGGG CTTGGG	16
(2) INFORMATION FOR SEQ ID NO:2405: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2405: CTGGGTGGGB BTGGG	15
(2) INFORMATION FOR SEQ ID NO:2406: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2406: CCBGGGTGGG CTTGG	15
(2) INFORMATION FOR SEQ ID NO:2407: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2407: GGGTTGGGCTT GG	12
 (2) INFORMATION FOR SEQ ID NO:2408: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2408: 	

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CCTGBGTGBG CBTGGG

(2) INFORMATION FOR SEQ ID NO:2409:

- (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 7800 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(D) TOPOLOGY:	linear				
(xi)	SEQUENCE I	ESCRIPTION:	SEO ID NO:	2409:		
GGCGGCCTGG	AAAGCTGAGA	A TGGAGGGCGC	CATGGCGGG	ACAGGCTGCC	CTGCTTTTCT	60
111016660	TUTGTGGTCT	: GTTTTTTTC1	P GGCCCTGCT6	GGGCGCTCTC	CCCCCCCCCC	
CTGGCTCCCG	GBGCCCBTGE	TGGGCBTGCC	GTGGTTCTTG	. CCCTCCTTTC	GCTGCCGTGC	120 180
CCGCTCCCCG	GCCTCCTGGC	: GGGTGGCCG1		TTCCCCTCCC	CCCTCCCCCT	240
CCCTTCTCTC	GCCCTTCTTC	CTGGGCCTCT	CCTGCTGCTG	GTGCTGTGG	CCCCGTACAC	
CGAGGAGCCC	ATGATGGGCA	TGCCACAGAC	GACAGGCGTE	CBCCCBCCBC	CCCBTGBTGG	300
GCBTGCCBCB	GBCGBCBGGC	GGCGCCGTGC	CGCGTCTTGG	TECCECCEC	TTCGCGCCCG	360
CGCGGGGCCC	CTCCGGTCCG	TTCGCGCCCG	CGCGGGGGCCC	'	GGGTCGGGGC	420
CCCCCGCGGC	CGCCTCGGGG	CTGGGGGGGCT	GETERCCERC	CICCGGICCC	GCCTGCCGCT	480
TCTGGCTGGG	CCCCGGGCGC	CCCCTCCCCT	· CTTCCTCCC	TCCCCCCTC	AGCGCGTCCT	540
GTGTCTCCAG	CAGCATGGCC	GGGCCAGCTG	GECCCCBCBC	CCCCTCCTCAC	GTCTCCBGCB	600
GCBTGGCCGG	GCCBGCTGGG	CCCCACAGAG	CACTCCTCTT	COUCTOT	TTGCCTTCCC	660
AGGGBCBGBG	CBTGCTGTTG	TTGGGCBTCT	TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CTGGTGGGGT	720
GGTGCTGTTG	TTGGGCTTTC	* TTCCCCD1C1	GCCIICCE	CCTCTTT	GGCBTCTTGC	780
CTTCCCBGGG	CCCTTTTCTC	GTGGGGTGCT		GCTGTTGTTG	TGTTCCCTTT	840
CCCCTGGGTC	TTCCCTCCTG	CTCTTTTTTTC	ATTELLIGING	GGCTTTCTTC	TGTTCCCTTT	900
TTTTTCATTA	ACCGAGCTGT	BTTTCCTCTC	. Alligoroum	CTATTACTTT	CTGTGTCCAT TTTTTCBTTB	960
BCCGBGCTGT	GCCTGTGTCT	GTCCTCCTCC	. CIBITECTT	CTGTGTCCBT	TTTTTCBTTB	1020
TGCCGGTCCT	GCTCCTCCGG	GCTCTCCCTGC	CTCGTTCCTC	TUGTTUCTGC	TTGGTGCCCT	1080
TGGCCTTCGC	TECCTECCE	CCTCCCCCTC	GIGGCCCIGG	CTCCGGCTGG	TGGGCTCCCC	1140
GGGGTCTTCG	CTGCCTCCCT	TTCCCTCCCT	COCOCAARA	CCTGGCTGTG	GCCGTGGTTG CCATGGCGGT	1200
CCTGCTTGGA	TTCTCCCCAT	CTCTCDDTDT	UTCTGAATAT	TGACCTTCCT	CCATGGCGGT	1260
TTCTCCCGRG	CCTTTCCTCC	CICIGODIDI	CEMERATOR	CCBTGGCGGT	CCTGCTTGGB	1320
GGGATTCCAT	GCCAGGACCC	ATCTCTTGTT	GTTTTTGGGG	TTTGGCTTAC	AGTAGAGTAG	1380
GAGGGACTGC	TAACACCCCA	TCTCCACCAC	TGGACTCCTT	CAAGGAGACC	TTAGGTTTCT	1440
BTCTTCTTCB	TCCBCTCCTT	CRRCCRCRC	BGTBGBGTBG	GGGBTTCCBT	GGCBGGBGCC	1500
TCTGGBGCGT	TGGBCTCCTT	CDDGGBGBCC	TTBGGTTTCT	GBGGGBCTGC	TBBCBCGCCB	1560
GGRTTCCRTG	CCBCCBCCCB	GITTGGCTTG	CCTTTCCTGG	TTCTCTTBCB	GTBGBGTBGG	1620
BGGGBCTGCT	BECECCCET	CTCCTTCBT	GGBCTCCTTC	BBGGBGBCCT	TBGGTTTCTG	1680
TTCCTCCTTC	GTCCCCTTCC	CTGGBGCGCC	TGTGTCTGTC	CTCCTGCTTC	GTTCCTCTCG	1740
CGGCTGGTGG	CCTCCCCTCC	CGGTCCTGCT	CCTCCGGGCT	GTGGGTCCTC	GCCCTGGCTC	1800
CCGBCBCGCC	CTCCTTCCCC	CUTTUGUTGG	CTGGCGGCGT	GCCCCBGBBC	GBGBCCCGGB	1860
GACCTTCCAT	GCCCCTCCTC	CTTCCTCGCTG	CCTCCGTTTG	GGTGGCGATC	TCTGAATATT	1920
CTTCCBTCTC	CCCTCTCCTC	CTTGGAGBTC	TCTGBBTBTT	GBCCTTCCBT	GGCGGTCCTG	1980
GCCCCCGGGG	CTCCCTCCCC	GCCTTCGTGG	TTCCTCTTCC	TTCGTTTGCC	GTCCGCGGGG	2040
GCTCCCGTGT	CTGGCTGCGC	TCCTGCCCCG	CCTCTTTCCC	GGGCTCTTGC	GCTGGGGGGT	2100
CCCCTCCCC	CCCCTCCCCC	CCCCCCCCCCC	CGCGCTTGTC	GTTTTGGGGC	CGGCTTTGCC	2160
GCTCTCCCCT	CTCCTCCCCC	GGCCTTCCTG	GGCTGCGTGC	GCGTTCTGTT	CTTCTTCCTG	2220
GCTCTGGGGT	CTCCCCCTCCT	TCGTGGTTCC	TCTTCCTTCG	TTTGCCGTCC	GCGGGGGCCC	2280
CCGGGCCTGG	CCCCCCCCCCC	GCCCCGCCTC	TTTCCCGGGC	TCTTGCGCTG	GGGGGTGCTC	2340
CCGTGTGTTT	TCCCCCCCCC	CCTGGTCGCG	CTTGTCGTTT	TGGGGCCGGC	TTTGCCCGCC	2400
TCCCGGCGCC	CCACCCCCAM	TTCCTGGGCT	GCGTGCGCGT	TCTGTTCTTC	TTCCTGGCGC	2460
AGGAGACAGG	CCACCACACA	CAGGAGCAGC	GTGAGCCAAA	GGAGGACCAT	CGGGAACGCA	2520
GRECCERREC	PCCDCCDMCC	GGTGCCGCBG	GBGBCBGGC	BGGGCGBTCB	GGBGCBGCGT	2580
GBGCCBBBGG	CCTCTTCCT	GGBBCGCBGC	TCCGGBBCGC	BGGBCBGBGG	TGCCTCTGCC	2640
CTGTCCGCCG	CEMCCCCCCC	GGCTCGGCCC	CGCTCCTTGT	CTTGCCGCGG	GTTGGTTCCT	2700
GGGCCTGGTT	TI I GCGGGGG	TTTCGGTCTG	CTGGCTGGTC	TGGGCCCGCG	GTGCGGCGGG	2760
TGGCTTGCTG	TTCTGCCTGG	GCTCTCCCCT	CTCCTCCTTT	TCTCCCTTCC	TCTGTCTTGC	2820
CTCCTTCCTC	TGGGTCCTCT	TGGCCTGGGC	GCTCTTCCCC	TCGGGCGGCT	GCGGGCGCTC	2880
GTGCTGCCTG	GTCCGCTCCC	TGGGGGTGCT	CCTTCCCTTT	CCCCGCTCGT	GGGGTTTGCG	2940
GGGCIGGGCI	GCCCTGGGGG	GTCTGGGCCT	TTTGGGGTCG	CCTCCCTCCT	CCTTCCCCCC	3000
GCC1GGGC11 (CCCTGTGCCC	CTTTCCTCTG	CTGGGTCCCC	CTCCCCTTCC	AACCTCCACC	3060
GCACAGACCG (JUGUTACAGG	ACAGAGCCAG	GCAAGCACCC	ATCCCCATCC	ACCCCCACCT	3120
GIICCBBGCI (PCBCCGCBCB	GBCCGGCGCT	BCBGGBCBGB	CCCRCCCRRC	CBCCCBTCCC	3180
GDICCBGGCC (CBGCTGCTCA	GTGGCCCCCA	AAAGGATGAG	ΤΑΑΤΑΓΑΤΩΓ	CCC	3240
TCATATCCTT :	ITTACTATGA	GGCCGTGTCT	GTCGTGTCTT	ጥሮሮሞምሞፎሮሞሮ -	ででこのとのとのと	3300
TITGUTGTGC (CTGCCTCTC	TGCCCGTGTC	TGTCGTGTCT	ጥጥሮርጥጥጥርርጥ	CTTCCTCTCT	3360
CITICULGIC (CCTGCCTCT	CTGCCCGTGT	CTGTCGTGTC	ጥጥጥርርጥጥጥርር ፣	中で中中でで中で中で	3420
TCTTTGCTGT (3CCCTGCCTC	TCTGCGGGGG	ፐርርርጥጥርርጥር	CCCCCTCTCT	CCCCCCCCCC	3480
GTCCCTCGGC (CCCGCGCCGC	GCTCGGCTCC	TCTCCCTCTG	GCCCGGCTCG	GGGCGGGCG	3540
				_		

GGGCGGTGGG	CGGGCGGCGC	TGCCCTGCGC	GCGGCGCTGG	CCCCTGCTGG	CCCTCGCTG	3600
	GCTGCCCTGC					
		166666666	GGGGCCTGTC	CGCCTCTGCG	GGCGCTGTCT	3660
CCTGGCTTGT	CTTCCGGCTC	TTCTGCTGGG	GTGGGGCTGG	GCGGCCGGCC	CGGTGCTGGG	3720
GCTCCTCGGG	GGGGGGGCT	CTTCCGGGCT	GTCTCCCTCC	GGGGCGGGGG	TTTCTGGCCG	3780
TGGGGGTCTT	GCCTGGCCTC	CGGGCTCCTG	CTTCTCTTCC	COTOCOTOCO	TCCTCCCTTC	
						3840
	CTCCGTGGGT		CGTTTGTGTT		CCCTGGCGTC	3900
CCTGTGCCCC	TCTCCTCTCC	TTCCTCTGCT	TCTCGCTCTC	CTTTGTGGGG	CCCTCCCTGC	3960
TGCTCTTGGT	TTTGGGCTTT		CTCCTTTTTC			4020
		CCCCACCCC	TTCCCCCCCCCC	0100010000	CICCGCACGC	
CICIIGCCAC	CTCCTGCGCA	GGGCAGCGCC	TTGGGGCCAG	CGCCGCTCCC	GGCGCGGCCA	4080
GCAGGGCAGC	CAGCAGCGCG	CAGCCGACGG	CCAGCATGCT	TCCTCCTCGG	CTACCACTCC	4140
ATGGTCCCGC	AGAGGCGGAC	AGGCGCBCGC	CTCTTGCCBC	CTCCTCCCCB	GGCCBGCGCC	4200
TTCCCCCCCC	CCCCCCTCCC	CCCCCCCCCC	CODCCCCCC	CTCCTGCGCD	GGGCDGCGCC	
11000000000	CGCCGCTCCC	GGCGCGGCCB	GCBGGGCBGC	CBGCBGCGCG	CBGCCGBCGG	4260
CCBGCBTGCT	TCCTCCTCGG	CTBCCBCTCC	BTGGTCCCGC	BGBGGCGGBC	BGGCGCTGCC	4320
CGGCGGGGTG	TGCGCTTGGC	GCTCCCGTGC	TCGGTTCTCT	GTCTCCCGGT	CCCCCTTCCC	4380
						4440
	TGCCTCGGGG	TCCCGGGGCT	TCTGGCCCTT	GCCGTTCATG	GTGGCTAGGT	4500
GGGGCGTTCB	TGGTGGCTBG	GTGGGGCGGG	GTGGGTBGGC	CGTGTCTGGG	GGTTGGCCBT	4560
GTTGGTTGCC	TCTTGGTGGT	GCGCCGGGCG	CCTCTTCCCT	THUCKECHCCH	TCCCCCCCCTC	
CCCCCCCTCC	MMCMCCCCMC	GCGCCGGGCG	CGICIIGGCI	TICTICICCI		4620
GGGCCGGTGC	TTGTGGGCTC					4680
GCGGGGGGGC	CTCCTGCTCT	GTGGCTGGGC	GTTCCTTGGT	GTTCTGGGTG	GTGGCGGGCG	4740
TGGTGGCCTC	TGTGGGGGCC		GGGGTTGCCT			4800
		macccccmcm	GGGGTTGCCT	GICIGCIICG	TCCTTTGCGC	
100000000	CCGGGGTGGG	TAGGCCGTGT	CTGGGGGTTG	GCCATGTTGG	TTGCCGGGCC	4860
CGCGGCTGCA	GGGGACAGGG	GCTGTAATCT	TCATCTGCAG	GTGGCATGCC	AGTGAAATTT	4920
AGATCATCAA	AATCCCACAT	CTGTGGATCT	GTAATATTTG	ΔΟΔΨΩΨΟΟΨΟ	TTCAGTTTCA	4980
CCNNTCCTTT	CAMCMAACMC	AACCACCCCC	CACCACACA	COMCADDACA	TICAGITICA	
GCAAIGGIII	GATCTAACTG	AAGCACCGGC	CAGGBCBGGG	GCTGTBBTCT	TCBTCTGCBG	5040
GTGGCBTGCC	BGTGBBBTTT	BGBTCBTCBB	BBTCCCBCBT	CTGTGGBTCT	GTBBTBTTTG	5100
BCBTGTCCTC	TTCBGTTTCB	GCBBTGGTTT	GBTCTBBCTG	BRGCBCCGGC	CRECTECTE	5160
CCTCCTTCTC	CCCCTGTTGT	TOCCCCCCTC	CCTTCCTCTC	CCCCCMCMCC	mccmmccmmm	
CCCCCTCTC	CCCCIGIIGI	1000000000	GGIIGGIGIG	GCCCCTGTGG	TGCTTCGTTT	5220
CCCCCTCTTT	CTCTTTGTTC	GGGGGTTCTT	GTGGCGGGCT	GCTTGTCTCG	TTCCGCCCTG	5280
TCGGGCGGGA	AGCCTCTCTC	CTCTCCCCAG	ATCCGCGACA	GGCCGCAGGC	AAGAACCAGC	5340
GCAACCAGGG	CGCGTCCGCA	САСАСТТССА	GCCCCCTCCA	TECTECTACE	TCCTCCACAA	5400
CCCTCCCCTC	CCCCCCCCCC	COMOMOCOCO	CCCCCCCCCC	TGCTGCTACC		
GCGTCCGGTG	GCCGCCGCGC	CCTGTCGGGC	GGGBBGCCTC	TCTCCTCTCC	CCBGBTCCGC	5460
GBCBGGCCGC	BGGCBBGBBC	CBGCGCBBCC	BGGGCGCGTC	CGCBCBGBCT	TGGBGGCGGC	5520
TGCBTGCTGC	TBCCTGCTCG	GGCGGGBBGC	CTCCGGTGGC	CGCCGCGCGT	CCGGTGGCCG	5580
CCGCGCCTCT	CTCCTCTCCC	CGTGCCCCTC	TCCCCCCCCT	CCTCCCCTCC	mcmcmccmmm	
mcmmmmccmc	mammamamama					5640
	TCTTGTCTTC		TTTGTCTGTC	CTCCCCGTCT	CCTCCCACTG	5700
CTTCTCCCGG	GGGCTTCCCC	GGCTTCGGGT	GGCCGGTGTC	CCGGGCTCCG	GCGCGGCGGC	5760
GGCTTCGGCT	GCGGGTGGGT	GGCGCGGGCT	GCCGGGTCCG	CCCCCCCC	CCCCCCTTCT	5820
GCTGCTTTTT	GCTTGTTCCG					
			TCCGGTCTGT		TTTTGTTTCT	5880
TCTTGGGTGT	GGGCCTTGCG	GTTTTGGCTG	TGGGCCCTTT	GGGGCCTTGG	CTTCTGGCTC	5940
GTCTGTCCTC	CCCGTCTCCT		CTCCCGGGGG		TTCGGGTGGC	6000
	GGCTCCGGCG		TITIC C C CTC C C	CCTCCCCCCCC		
COOTGICCCG	000100000					6060
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GGTCTGTGTT	GTGGTTGTTT	TGTTTCTTCT	TGGGTGTGGG	CCTTGCGGTT	TTGGCTGTGG	6180
GCCCTTTCGG	GCCTTGGCTT	CTCCCTCCAT	CCACATCATT	CCTTACATION		
MCMCACCAMM	A MOR CHORA	CIGGCICCAI	CCACAIGAII	GCTTAGATTT	GTGCTGTATC	6240
TCTCAGGATT	ATCACTGATT	ACACATCCAA	CCAGTGCCAG	CCAAAAGGAT	GCCCTGAGGC	6300
AAAGGGTTTC	CATCTTGAGG	CAAATTTGAG	GACBTCCBCB	TGBTTGCTTB	GBTTTGTGCT	6360
GTBTCTCTCB	GGBTTBTCBC	TGRTTRCRCR	TCCBBCCBCT	CCCRCCCBBB	BCCB#CCCC#	6420
GREGERRECE	GTTTCCBTCT	TCDCCCCDDDT	MMCDCCDCCC	CCCDCCCDDD	DOGDIGCCCI	
DOGGCODDGG	GITICCBICI	IGDGGCDDDI	TTGBGGBGGG	CIBBGBIGBI	CCRCRLCRCL	6480
BCCBCGTTGC	CCBCCBCBGB	GGTCBCCBCB	BTGBCCGTGT	BGGCBGCTGC	CCBBBGGBCB	6540
BTTTGCCBGG	CTGGTTGCBC	GBBCTGBTTG	GGTTCCGBGG	TGTTBGTGGB	GBTGTTTGGG	6600
GRGRGGTCTG	BGTCCBCCGG	GREGREGTTR	TCCBTTTCCB	DCCTDCCCCC	TERRECCCOMP.	
CEDEGGGEE	DOTCCDCCGG	GDGGGCG115	ICCDITICGE	DGC1BGGGG	TBBBGCCCTB	6660
CTBTCTGTBC	BCBBCCCCCC	TCTGCBGCBG	BGTCCTGTCG	TGGCGCCTGG	GGCTCBGGGT	6720
CCGGGCTAAG	ATGATCCACA	TCACTACCAC	GTTGCCCACC	ACAGAGGTCA	CCACAATGAC	6780
CGTGTAGGCA	GCTGCCCAAA	GGACAATTTG	CCAGGCTGGT	TCCACCAACT	CATTCCCTTC	6840
CCACCTCTTA	CUCCACAUCU	MMCCCCCACAC	CENCECTOOL	TOCACGAACI	GATIGGGTIC	
CGAGGIGIIA	GTGGAGATGT	TTGGGGAGAG	GTCTGAGTCC	ACCGGGAGGA	CGTTATCCAT	6900
TTCGAAGCTA	GGCGGTAAAG	CCCTACTATC	TGTACACAAC	CCCCCTCTGC	AGCAGAGTCC	6960
TGTCGTGGCG	CCTGGGGCTC	AGGGTCCGTC	CTGTCGTGGC	GCCTGGGGCT	CփփCփփփան	7020
GGGCTCTTTTC	GTGGCTGTGG	CACACCACAC	TCTCCTTCCT	CCCCTCCCCTC	mcccccmcmc	
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GCCTTGGGGC	CGTCCTCTGG	CTCCTCCTCG	TGGGCCCCCG	GTGBCBTTGB	GCBTGTCGGC	7140
GCGGTCCCGT	TBBGBGTGGG	CCCGCCAGCC	CAGCCACTCC	ACTTGGGGGC	GGGTGGCCAG	7200
CACGAACAGC	ACCCAGAGGA	AGGGGGGGGG	CCCAGAACCC	CACCCCCCAC	CCCACCAMO	
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CCTCTCCCTG	CCCCCTTGC	TGGGGCAGGG	ACGGGGTGRC	BTTGRGCRTG	TCGGCGCGCT	7440
CCCGTTPPCT	GTGGGGGGGGG	CACCCCACCC	Y CM CON CMMC	DITORGODIG	2007.007.007	
ACACCAT COS	GTGGGCCCGC	CAGCCCAGCC	ACTUCACTTG	GGGGCGGT'G	GCCAGCACGA	7500
ACAGCACCCA	GAGGAAGGGG	GGCGGCCCAG	AAGGGCAGCC	CGCAGGCCAG	GATCAGGTCT	7560
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CCCGGGTTCT GACCTGCAGC CCCCGTCTCC TTGGCATTCC TGGGCCCCAG TCACTCCTCT 7680
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- (2) INFORMATION FOR SEQ ID NO:2410:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6225 base pairs
 - (B) TYPE: nucleic acid

) IIPE: NUC.					
(C		ESS: single				
	TOPOLOGY:		CEO TO NO.	2410-		
	SEQUENCE DI		_		ccccopacca	C O
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	GTCCCCBGCB					300
	BGGGGCGCGG					360
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	GGTTBTGGGC					480
	CGGCCGBCBT					540
	GCTGCBGGGB					600
	CCGBGGCCBG					660
	CGBGTCGGCG					720
	TGGTGGGGCT					780
	GCCCCCCCT					840
	GCTGGCCGGG					900
	BTCTGCTCTG					960
	GCCTGCTCTC					1020
	CCBGCBGBBG					1080
	TGTTGCTGGG					1140
	CCTCBTCBGC					1200
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CBGCBBCCTC	BTCBGCTCTT	GCCTGGBGTG	GCTCBGCCTG	GGCCTGCBGG	GCCBCCBGGB	1440
GBBTGGCBGC	BBGGBTGGCG	BGGGTCCTCB	TGGCTGGGGT	CBCCTGGBGG	BGGGBGBGCB	1500
GGGGGTCCTC	BTGGCTGGGG	TCCCTCTCTC	CCGTCCTCGG	TTTCCTTTGC	GGTCTTGGCC	1560
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CTGCCTTCTC	CCCTCTCCTC	GGCCGTTGCC	TGTGCTGTCC	GTCCTGTCGC	CCTTCCGTGG	1800
TGCTGTTGTC	TCTTCTGCCC	TCGGTGTGCT	GGTGCTGGTG	GTGGTGCCTC	TGCCCGTGCT	1860
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	TGBTBCTCBC					3180
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5700
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                                                                     5940
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GCTGGGTGCG GCCTCCCGC CCCCCTTCTG GGCCGGTGGC CTGGCTCCTT GTGGGCGCTT 6180
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- (2) INFORMATION FOR SEQ ID NO:2411:
- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7033 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2411:

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GGGGTGCCCC	GCCGCTGGGT	GCCCTCGTCC	TCTGCGGTCG	TGTCTCCTGG	CTCTGGTTCC	600
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TCTCTTTCGC	TTTCTTTTCG	TCTCCTGTTC	CTCCTTTTTT	GCTGTTTTTT	CTCCTTCTTC	1500
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TGCCCTGCGC	GCGGCGCTGG	CCCCTGCTGG	CCGTCGGCTG	CGCGCTGCTG	GCTGCCCTGC	2160
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GGTCTGGGGG	CTGGGCTGCB	GGCTCCGGGC	GGGCGGGTGC	GGGCTGCGTG	CTGGGGGGCTG	4680
CCCCGCAGGC	CCTGCGCBCC	GCCTGGBGCC	CTGGGGCCCC	CCTGTCTTCT	TGGGGBGCGC	4740
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BTGTTGGBTT TTGCGBCGGB CBGTCCCGCG GGGTGCTGAG TTTCTCTGGT TCCTCCGBGC
                                                                 5760
GCBCGTGGTC GCTCCGCGTT TCTCTGGTTC CTCCGGTCCC GCGGGGTGCT GTCTGGTCGC
                                                                 5820
TGTCGTGGCT TGGGTCTCCG GGCGGTTTCC TTCCTTTTCC GCCGGCCCTT CTCACTGGAG
GCACCGGGCA GTCCTCCATG GGAGGGTTGG GCTTGGCCGG GGCTGCCCGG TGCCTCCTCT
                                                                 5940
TGGCTGGTCC CTCGTTGTCC TTGGGCCCCG CTCCCGCTGC TCGGCCTCCG TGTTCTTTGG
                                                                 6000
CCTCTTGCTC CGCCTGCTGT CTTGTCCCGT CCCCTCCTCG CTTGCGTTTC CCTCTTCCTT
GTCTTCCAGG CCTTCCTCCG CTTCCGCTGC TGGGGCCCGC GCCGGGGGG CGCTCGGCTC
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CGCGGCTTCC TCCCCGGCTG GGGGGTCCTG GTCTCCGGGG CCTGCGGCTC GCGGGCTCGG GGCTGCGTGC GCCGCGCGC GCGTCCGCG TGGTGTGTCT CCGTTCTCGT CCTGCGCCGT CCTGGTCTGC CCGTGGGGTC CTGGGCGTG TGGGGGGCCGT
                                                                 6180
                                                                 6300
CTGGTGCCTC GTCTGCCCCG TGGGGCTTCG GGCTCGGGGC TGTTCGTCCC CCCTGCCGCT
                                                                 6360
CTGTGGCCTC CGGGGCTCCT CGTTTTCGCT GCTTCGGGTG TCCTTCTCGG CGTGTGGCCC
                                                                 6420
CGGGTCCCGG CCCTGCTGGG CTGGGCGGGG TCGCTGCCCT GGGCTTCTGG CCCGTCTGGT
                                                                 6480
6540
                                                                 6600
CGGGGTCCTC CCCTTCCCGT TTCATCTTGG CTTTATCCTC TCCCCTTGTT CCTCCCCTCT
                                                                 6660
CCTGCTCTGG RGTCTCCTCT TCCCTCCCTC CCCTGCCGTG TTGTCTGTGG GTGTCGTTTC
GCTCTTGTTG CCCTGGGCCC TTCCCTGCTG GGGGGGAGTT TCATCTTGGG TTTCBTCTTG
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GCTTTBTCCT CTCCCCTTGT TCCTCCCCTC TCCTGCTCTG GRGTCTCCTC TTCCCTCCCT
                                                                 6840
CCCCTGCCGT GTTGTCTGTG GGTGTCGTTT CGCTCTTGTT GCCCTGGGCC CTTCCCTGCT
                                                                 6900
GGGGGGBGT TTCBTCTTGG GGGGGBGTTT CBTCTTGGCT TTCCGTGTTG TCBGTGGTGC
                                                                 6960
TGCCCGTTTG BGGTBTGGCG CTCCBCCBBT TCCCTTTTCT CCTTGTTTTC CGTTTCTCTT
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GCCGTCTGTG GTT
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        (2) INFORMATION FOR SEQ ID NO:2412:
     (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 21 base pairs
       (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2412:
GATGGAGGC GGCATGGCGG G
                                                                   21
        (2) INFORMATION FOR SEQ ID NO:2413:
      (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 12 base pairs
        (B) TYPE: nucleic acid
       (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2413:
GCGGGTCGCC GG
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        (2) INFORMATION FOR SEQ ID NO:2414:
     (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 13 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2414:
GGCGGGCBCB GGC
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        (2) INFORMATION FOR SEQ ID NO:2415:
     (i) SEQUENCE CHARACTERISTICS:
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403254.1 73999/01905 (A) LENGTH: 9 base pairs

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(B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2415:
GGCGGGCBC
          (2) INFORMATION FOR SEQ ID NO:2416:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 9 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEO ID NO:2416:
GCGGCCTGG
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          (2) INFORMATION FOR SEO ID NO:2417:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 10 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEO ID NO:2417:
GGBGGGCGGC
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          (2) INFORMATION FOR SEQ ID NO:2418:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 9 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2418:
GRTGGRGGG
                                                                         9
          (2) INFORMATION FOR SEQ ID NO:2419:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 8 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2419:
GGCTGGGC
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(2) INFORMATION FOR SEQ ID NO:2420:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 981 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEO ID NO:2420:
       1 ATGCCGCCCT CCATCTCAGC TTTCCAGGCC GCCTACATCG GCATCGAGGT GCTCATCGCC
      61 CTGGTCTCTG TGCCCGGGAA CGTGCTGGTG ATCTGGGCGG TGAAGGTGAA CCAGGCGCTG
     121 CGGGATGCCA CCTTCTGCTT CATCGTCTCG CTGGCGGTGG CTGATGTGGC CGTGGGTGCC
     181 CTGGTCATCC CCCTCGCCAT CCTCATCAAC ATTGGGCCAC AGACCTACTT CCACACCTGC
     241 CTCATGGTTG CCTGTCCGGT CCTCATCCTC ACCCAGAGCT CCATCCTGGC CCTGCTGGCA
     301 ATTGCTGTGG ACCGCTACCT CCGGGTCAAG ATCCCTCTCC GGTACAAGAT GGTGGTGACC
     361 CCCCGGAGGG CGGCGGTGGC CATAGCCGGC TGCTGGATCC TCTCCTTCGT GGTGGGACTG
     421 ACCCCTATGT TTGGCTGGAA CAATCTGAGT GCGGTGGAGC GGGCCTGGGC AGCCAACGGC
     481 AGCATGGGGG AGCCCGTGAT CAAGTGCGAG TTCGAGAAGG TCATCAGCAT GGAGTACATG
     541 GTCTACTTCA ACTTCTTTGT GTGGGTGCTG CCCCCGCTTC TCCTCATGGT CCTCATCTAC
     601 CTGGAGGTCT TCTACCTAAT CCGCAAGCAG CTCAACAAGA AGGTGTCGGC CTCCTCCGGC
     661 GACCCGCAGA AGTACTATGG GAAGGAGCTG AAGATCGCCA AGTCGCTGGC CCTCATCCTC
     721 TTCCTCTTTG CCCTCAGCTG GCTGCCTTTG CACATCCTCA ACTGCATCAC CCTCTTCTGC
     781 CCGTCCTGCC ACAAGCCCAG CATCCTTACC TACATTGCCA TCTTCCTCAC GCACGGCAAC
     841 TCGGCCATGA ACCCCATTGT CTATGCCTTC CGCATCCAGA AGTTCCGCGT CACCTTCCTT
     901 AAGATTTGGA ATGACCATTT CCGCTGCCAG CCTGCACCTC CCATTGACGA GGATCTCCCA
     961 GAAGAGAGC CTGATGACTA G
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(2) INFORMATION FOR SEO ID NO:2421:
      (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 2900 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2421:
       1 ATGAGTGTCA GAAGTGTGAA GGGTGCCTGT TCTGAATCCC AGAGCCTCCT CTCCCTCTGT
      61 GAGGCTGGCA GGTGAGGAAG GGTTTAACCT CACTGGAAGG AATCCCTGGA GCTAGCGGCT
     121 GCTGAAGGCG TCGAGGTGTG GGGGCACTTG GACAGAACAG TCAGGCAGCC GGGAGCTCTG
     181 CCAGCTTTGG TGACCTTGGG CCGGGCTGGG AGCGCTGCGG CGGGAGCCGG AGGACTATGA
     241 GCTGCCGCG GTTGTCCAGA GCCCAGCCCA GCCCTACGCG CGCGGCCCGG AGCTCTGTTC
     301 CCTGGAACTT TGGGCACTGC CTCTGGGACC CCTGCCGGCC AGCAGGCAGG ATGGTGCTTG
     361 CCTCGTGCCC CTTGGTGCCC GTCTGCTGAT GTGCCCAGCC TGTGCCCGCC ATGCCGCCCT
     421 CCATCTCAGC TTTCCAGGCC GCCTACATCG GCATCGAGGT GCTCATCGCC CTGGTCTCTG
     481 TGCCCGGGAA CGTGCTGGTG ATCTGGGCGG TGAAGGTGAA CCAGGCGCTG CGGGATGCCA
     541 CCTTCTGCTT CATCGTGTCG CTGGCGGTGG CTGATGTGGC CGTGGGTGCC CTGGTCATCC
     601 CCCTCGCCAT CCTCATCAAC ATTGGGCCAC AGACCTACTT CCACACCTGC CTCATGGTTG
     661 CCTGTCCGGT CCTCATCCTC ACCCAGAGCT CCATCCTGGC CCTGCTGGCA ATTGCTGTGG
     721 ACCGCTACCT CCGGGTCAAG ATCCCTCTCC GGTACAAGAT GGTGGTGACC CCCCGGAGGG
     781 CGGCGGTGGC CATAGCCGGC TGCTGGATCC TCTCCTTCGT GGTGGGACTG ACCCCTATGT
     841 TTGGCTGGAA CAATCTGAGT GCGGTGGAGC GGGCCTGGGC AGCCAACGGC AGCATGGGGG
     901 AGCCCGTGAT CAAGTGCGAG TTCGAGAAGG TCATCAGCAT GGAGTACATG GTCTACTTCA
     961 ACTTCTTTGT GTGGGTGCTG CCCCGCTTC TCCTCATGGT CCTCATCTAC CTGGAGGTCT
    1021 TCTACCTAAT CCGCAAGCAG CTCAACAAGA AGGTGTCGGC CTCCTCCGGC GACCCGCAGA
    1081 AGTACTATGG GAAGGAGCTG AAGATCGCCA AGTCGCTGGC CCTCATCCTC TTCCTCTTTG
    1141 CCCTCAGCTG GCTGCCTTTG CACATCCTCA ACTGCATCAC CCTCTTCTGC CCGTCCTGCC
    1201 ACAAGCCCAG CATCCTTACC TACATTGCCA TCTTCCTCAC GCACGGCAAC TCGGCCATGA
    1261 ACCCCATTGT CTATGCCTTC CGCATCCAGA AGTTCCGCGT CACCTTCCTT AAGATTTGGA
    1321 ATGACCATTT CCGCTGCCAG CCTGCACCTC CCATTGACGA GGATCTCCCA GAAGAGAGGC
    1381 CTGATGACTA GACCCCGCCT TCCGCTCCCA CCAGCCCACA TCCAGTGGGG TCTCAGTCCA
    1441 GTCCTCACAT GCCCGCTGTC CCAGGGGTCT CCCTGAGCCT GCCCCAGCTG GGCTGTTGGC
    1501 TGGGGGCATG GGGGAGGCTC TGAAGAGATA CCCACAGAGT GTGGTCCCTC CACTAGGAGT
    1561 TAACTACCCT ACACCTCTGG GCCCTGCAGG AGGCCTGGGA GGGCAAGGGT CCTACGGAGG
    1621 GACCAGGTGT CTAGAGGCAA CAGTGTTCTG AGCCCCCACC TGCCTGACCA TCCCATGAGC
    1681 AGTCCAGCGC TTCAGGGCTG GGCAGGTCCT GGGGAGGCTG AGACTGCAGA GGAGCCACCT
    1741 GGGCTGGGAG AAGGTGCTTG GGCTTCTGCG GTGAGGCAGG GGAGTCTGCT TGTCTTAGAT
    1861 TGGAAGGAGA GAGGTTGAGG ATGCACTGGC CTGTTCTGTA GGAGAGACTG GCCAGAGGCA
    1921 GCTAAGGGGC AGGAATCAAG GAGCCTCCGT TCCCACCTCT GAGGACTCTG GACCCCAGGC
    1981 CATACCAGGT GCTAGGGTGC CTGCTCTCT TGCCCTGGGC CAGCCCAGGA TTGTACGTGG
    2041 GAGAGGCAGA AAGGGTAGGT TCAGTAATCA TTTCTGATGA TTTGCTGGAG TGCTGGCTCC
    2101 ACGCCCTGGG GAGTGAGCTT GGTGCGGTAG GTGCTGGCCT CAAACAGCCA CGAGGTGGTA
    2161 GCTCTGAGCC CTCCTTCTTG CCCTGAGCTT TCCGGGGAGG AGCCTGGAGT GTAATTACCT
    2221 GTCATCTGGG CCACCAGCTC CACTGGCCCC CGTTGCCGGG CCTGGACTGT CCTAGGTGAC
    2281 CCCATCTCTG CTGCTTCTGG GCCTGATGGA GAGGAGAACA CTAGACATGC CAACTCGGGA
    2341 GCATTCTGCC TGCCTGGGAA CGGGGTGGAC GAGGGAGTGT CTGTAAGGAC TCAGTGTTGA
    2401 CTGTAGGCGC CCCTGGGGTG GGTTTAGCAG GCTGCAGCAG GCAGAGGAGG AGTACCCCCC
    2461 TGAGAGCATG TGGGGGAAGG CCTTGCTGTC ATGTGAATCC CTCAATACCC CTAGTATCTG
    2521 GCTGGGTTTT CAGGGGCTTT GGAAGCTCTG TTGCAGGTGT CCGGGGGTCT AGGACTTTAG
    2581 GGATCTGGGA TCTGGGGAAG GACCAACCCA TGCCCTGCCA AGCCTGGAGC CCCTGTGTTG
    2641 GGGGGCAAGG TGGGGGAGCC TGGAGCCCCT GTGTGGGAGG GCGAGGCGGG GGAGCCTGGA
    2701 GCCCTGTGT GGGAGGGCGA GGCGGGGGAT CCTGGAGCCC CTGTGTCGGG GGGCGAGGGA
    2761 GGGGAGGTGG CCGTCGGTTG ACCTTCTGAA CATGAGTGTC AACTCCAGGA CTTGCTTCCA
    2821 AGCCCTTCCC TCTGTTGGAA ATTGGGTGTG CCCTGGCTCC CAAGGGAGGC CCATGTGACT
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(2) INFORMATION FOR SEQ ID NO:2422:

2881 AATAAAAAAC TGTGAACCCT

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1942 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEO ID NO:2422:
- 1 CGCATTTGTG TTTTAATAAA AGAATCTGGA AGATAAATAG TCTTGAAGAG AGACAAAGGA
- 61 AGGAAAATTT AAATCCTTAG ATTCAAGCAG AAGAATTCCA TGTGGAAGGT TTGGGTTGTT
- 181 TCTCGCTGTG TTACCGGGAG CGACAGAGCC GCACGGCCGA GTCGAGTCCC AGCCAGCTAC
- 241 CATCCCTCTG GAGCTTACCG GCCGGCCTTG GCTTCCCCAG GAATCCCTGG AGCTAGCGGC
- 301 TGCTGAAGGC GTCGAGGTGT GGGGGCACTT GGACAGAACA GTCAGGCAGC CGGGAGCTCT
- 361 GCCAGCTTTG GTGACCTTGG GTGCTTGCCT CGTGCCCCTT GGTGCCCGTC TGCTGATGTG
- 421 CCCAGCCTGT GCCCGCCATG CCGCCCTCCA TCTCAGCTTT CCAGGCCGCC TACATCGGCA
- 481 TCGAGGTGCT CATCGCCCTG GTCTCTGTGC CCGGGAACGT GCTGGTGATC TGGGCGGTGA 541 AGGTGAACCA GGCGCTGCGG GATGCCACCT TCTGCTTCAT CGTGTCGCTG GCGGTGGCTG
- 601 ATGTGGCCGT GGGTGCCCTG GTCATCCCC TCGCCATCCT CATCAACATT GGGCCACAGA
- 661 CCTACTTCCA CACCTGCCTC ATGGTTGCCT GTCCGGTCCT CATCCTCACC CAGAGCTCCA
- 721 TCCTGGCCCT GCTGGCAATT GCTGTGGACC GCTACCTCCG GGTCAAGATC CCTCTCCGGT
- 781 ACAAGATGGT GGTGACCCCC CGGAGGGCGG CGGTGGCCAT AGCCGGCTGC TGGATCCTCT
- 841 CCTTCGTGGT GGGACTGACC CCTATGTTTG GCTGGAACAA TCTGAGTGCG GTGGAGCGGG 901 CCTGGGCAGC CAACGGCAGC ATGGGGGAGC CCGTGATCAA GTGCGAGTTC GAGAAGGTCA
- 961 TCAGCATGGA GTACATGGTC TACTTCAACT TCTTTGTGTG GGTGCTGCCC CCGCTTCTCC
- 1021 TCATGGTCCT CATCTACCTG GAGGTCTTCT ACCTAATCCG CAAGCAGCTC AACAAGAAGG
- 1081 TGTCGGCCTC CTCCGGCGAC CCGCAGAAGT ACTATGGGAA GGAGCTGAAG ATCGCCAAGT
- 1141 CGCTGGCCCT CATCCTCTTC CTCTTTGCCC TCAGCTGGCT GCCTTTGCAC ATCCTCAACT
- 1201 GCATCACCCT CTTCTGCCCG TCCTGCCACA AGCCCAGCAT CCTTACCTAC ATTGCCATCT
- 1261 TCCTCACGCA CGGCAACTCG GCCATGAACC CCATTGTCTA TGCCTTCCGC ATCCAGAAGT
- 1321 TCCGCGTCAC CTTCCTTAAG ATTTGGAATG ACCATTTCCG CTGCCAGCCT GCACCTCCCA
- 1381 TTGACGAGGA TCTCCCAGAA GAGAGGCCTG ATGACTAGAC CCCGCCTTCC GCTCCCACCG
- 1441 CCCACATCCA GTGGGGTCTC AGTCCAGTCC TCACATGCCC GCTGTCCCAG GGGTCTCCCT 1501 GAGCCTGCCC CAGCTGGGCT GTTGGCTGGG GGCATGGGGG AGGCTCTGAA GAGATACCCA
- 1561 CAGAGTGTGG TCCCTCCACT AGGAGTTAAC TACCCTACAC CTCTGGGCCC TGCAGGAGGC 1621 CTGGGAGGGC AAGGGTCCTA CGGAGGGACC AGGTGTCTAG AGGCAACAGT GTTCTGAGCC
- 1681 CCCACCTGCC TGACCATCCC ATGAGCAGTC CAGAGCTTCA GGGCTGGGCA GGTCCTGGGG
- 1741 AGGCTGAGAC TGCAGAGGAG CCACCTGGGC TGGGAGAAGG TGCTTGGGCT TCTGCGGTGA
- 1801 GGCAGGGGAG TCTGCTTGTC TTAGATGTTG GTGGTGCAGC CCCAGGACCA AGCTTAAGGA
- 1861 GAGGAGAGCA TCTGCTCTGA GACGGATGGA AGGAGAGGG TTGAGGATGC ACTGGCCTGT
- 1921 TCTGTAGGAG AGACTGGCCA GA
- (2) INFORMATION FOR SEQ ID NO: 2423:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5904 base pairs

- (B) TYPE: nucleic acid (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2423:

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TGCCCGGGAA	CGTGCTGGTG	ATCTGGGCGG	TGAAGGTGAA	CCAGGCGCTG	CGGGATGCCA	CCTTCTGCTT
ATCGTCTCG C	CTGGCGGTGG CTG	GATGTGGC CGTG	GGTGCC CTGGT	CATCC CCCTCGCC	AT CCTCATCAAC	ATTGGGCCAC
AGACCTACTT	CCACACCTGC	CTCATGGTTG	CCTGTCCGGT	CCTCATCCTC	ACCCAGAGCT	CCATCCTGGC
CCTGCTGGCA	ATTGCTGTGG	ACCGCTACCT	CCGGGTCAAG	ATCCCTCTCC	GGTACAAGAT	GGTGGTGACC
CCCCGGAGGG	CGGCGGTGGC CA	ATAGCCGGC TGC	TGGATCC TCTC	CTTCGT GGTGGGA	CTG CCCCTATGT	TTGGCTGGAA
CAATCTGAGT	GCGGTGGAGC	GGGCCTGGGC	AGCCAACGGC	AGCATGGGGG	AGCCCGTGAT	CAAGTGCGAG
TTCGAGAAGG	TCATCAGCAT	GGAGTACATG	GTCTACTTCA	ACTTCTTTGT	GTGGGTGCTG	CCCCCGCTTC
TCCTCATGGT	CCTCATCTAC	CTGGAGGTCT	TCTACCTAAT	CCGCAAGCAG	CTCAACAAGA	AGGTGTCGGC
CTCCTCCGGC	GACCCGCAGA	AGTACTATGG	GAAGGAGCTG	AAGATCGCCA	AGTCGCTGGC	CCTCATCCTC
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ACAAGCCCAG	CATCCTTACC	TACATTGCCA	TCTTCCTCAC	GCACGGCAAC	TCGGCCATGA	ACCCCATTGT
CTATGCCTTC	CGCATCCAGA	AGTTCCGCGT	CACCTTCCTT	AAGATTTGGA	ATGACCATTT	CCGCTGCCAG
CCTGCACCTC	CCATTGACGA	GGATCTCCCA	GAAGAGAGGC	CTGATGACTA G	ATGAGTGTCA	GAAGTGTGAA
GGGTGCCTGT	TCTGAATCCC	AGAGCCTCCT	CTCCCTCTGT	GAGGCTGGCA	GGTGAGGAAG	GGTTTAACCT
CACTGGAAGG	AATCCCTGGA	GCTAGCGGCT	GCTGAAGGCG	TCGAGGTGTG	GGGGCACTTG	GACAGAACAG
TCAGGCAGCC	GGGAGCTCTG	CCAGCTTTGG	TGACCTTGGG	CCGGGCTGGG	AGCGCTGCGG	CGGGAGCCGG
AGGACTATGA	GCTGCCGCGC	GTTGTCCAGA	GCCCAGCCCA	GCCCTACGCG	CGCGGCCCGG	AGCTCTGTTC
CCTGGAACTT	TGGGCACTGC	CTCTGGGACC	CCTGCCGGCC	AGCAGGCAGG	ATGGTGCTTG	CCTCGTGCCC

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	GTCTGCTGAT	GTGCCCAGCC	TGTGCCCGCC	ATGCCGCCCT	CCATCTCAGC	TTTCCAGGCC
GCCTACATCG	GCATCGAGGT	GCTCATCGCC	CTGGTCTCTG	TGCCCGGGAA	CGTGCTGGTG	ATCTGGGCGG
TGAAGGTGAA	CCAGGCGCTG	CGGGATGCCA	CCTTCTGCTT	CATCGTGTCG	CTGGCGGTGG	CTGATGTGGC
CGTGGGTGCC	CTGGTCATCC	CCCTCGCCAT	CCTCATCAAC	ATTGGGCCAC	AGACCTACTT	CCACACCTGC
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CCCTCAGCTG	GCTGCCTTTG	CACATCCTCA	ACTGCATCAC	CCTCTTCTGC	CCGTCCTGCC	ACAAGCCCAG
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CGCATCCAGA	AGTTCCGCGT	CACCTTCCTT	AAGATTTGGA	ATGACCATTT	CCGCTGCCAG	CCTGCACCTC
CCATTGACGA	GGATCTCCCA	GAAGAGAGGC	CTGATGACTA	GACCCCGCCT	TCCGCTCCCA	CCAGCCCACA
TCCAGTGGGG	TCTCAGTCCA	GTCCTCACAT	GCCCGCTGTC	CCAGGGGTCT	CCCTGAGCCT	GCCCCAGCTG
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GCCAGAGGCA	GCTAAGGGGC	AGGAATCAAG	GAGCCTCCGT	TCCCACCTCT	GAGGACTCTG	GACCCCAGGC
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GGTGCGGTAG	GTGCTGGCCT	CAAACAGCCA	CGAGGTGGTA	GCTCTGAGCC	CTCCTTCTTG	CCCTGAGCTT
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GTCATCCCCC	TCGCCATCCT	CATCAACATT	GGGCCACAGA	CCTACTTCCA	CACCTGCCTC	ATGGTTGCCT
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GTCCGGTCCT GGTCAAGATC TGGATCCTCT	CATCCTCACC CCTCTCCGGT CCTTCGTGGT	CAGAGCTCCA ACAAGATGGT GGGACTGACC	TCCTGGCCCT GGTGACCCCC CCTATGTTTG	CCTACTTCCA GCTGGCAATT CGGAGGGCGG GCTGGAACAA	GCTGTGGACC CGGTGGCCAT TCTGAGTGCG	GCTACCTCCG AGCCGGCTGC GTGGAGCGGG
GTCCGGTCCT GGTCAAGATC TGGATCCTCT CCTGGGCAGC	CATCCTCACC CCTCTCCGGT CCTTCGTGGT CAACGGCAGC	CAGAGCTCCA ACAAGATGGT GGGACTGACC ATGGGGGAGC	TCCTGGCCCT GGTGACCCCC CCTATGTTTG CCGTGATCAA	CCTACTTCCA GCTGGCAATT CGGAGGGCGG GCTGGAACAA GTGCGAGTTC	GCTGTGGACC CGGTGGCCAT TCTGAGTGCG GAGAAGGTCA	GCTACCTCCG AGCCGGCTGC GTGGAGCGGG TCAGCATGGA
GTCCGGTCCT GGTCAAGATC TGGATCCTCT CCTGGGCAGC GTACATGGTC	CATCCTCACC CCTCTCCGGT CCTTCGTGGT CAACGGCAGC TACTTCAACT	CAGAGCTCCA ACAAGATGGT GGGACTGACC ATGGGGGAGC TCTTTGTGTG	TCCTGGCCCT GGTGACCCCC CCTATGTTTG CCGTGATCAA GGTGCTGCCC	CCTACTTCCA GCTGGCAATT CGGAGGGCGG GCTGGAACAA GTGCGAGTTC CCGCTTCTCC	GCTGTGGACC CGGTGGCCAT TCTGAGTGCG GAGAAGGTCA TCATGGTCCT	GCTACCTCCG AGCCGGCTGC GTGGAGCGGG TCAGCATGGA CATCTACCTG
GTCCGGTCCT GGTCAAGATC TGGATCCTCT CCTGGGCAGC GTACATGGTC GAGGTCTTCT	CATCCTCACC CCTCTCCGGT CCTTCGTGGT CAACGGCAGC TACTTCAACT ACCTAATCCG	CAGAGCTCCA ACAAGATGGT GGGACTGACC ATGGGGGAGC TCTTTGTGTG CAAGCAGCTC	TCCTGGCCCT GGTGACCCCC CCTATGTTTG CCGTGATCAA GGTGCTGCCC AACAAGAAGG	CCTACTTCCA GCTGGCAATT CGGAGGGCGG GCTGGAACAA GTGCGAGTTC CCGCTTCTCC TGTCGGCCTC	GCTGTGGACC CGGTGGCCAT TCTGAGTGCG GAGAAGGTCA TCATGGTCCT CTCCGGCGAC	GCTACCTCCG AGCCGGCTGC GTGGAGCGGG TCAGCATGGA CATCTACCTG CCGCAGAAGT
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GTCCGGTCCT GGTCAAGATC TGGATCCTCT CCTGGGCAGC GTACATGGTC GAGGTCTTCT ACTATGGGAA GCCTTTGCAC ATTGCCATCT TCCGCGTCAC TCTCCCAGAA AGTCCAGTCC	CATCCTCACC CCTCTCCGGT CCTTCGTGGT CAACGGCAGC TACTTCAACT ACCTAATCCG GGAGCTGAAG ATCCTCAACT TCCTCACGCA CTTCCTTAAG GAGAGGCCTG TCACATGCCC AGGCTCTGAA	CAGAGCTCCA ACAAGATGGT GGGACTGACC ATGGGGGAGC TCTTTGTGTG CAAGCAGCTC ATCGCCAAGT GCATCACCCT CGGCAACTCG ATTTGGAATG ATGACTAGAC GCTGTCCCAG GAGATACCCA	TCCTGGCCCT GGTGACCCCC CCTATGTTTG CCGTGATCAA GGTGCTGCCC AACAAGAAGG CGCTGGCCCT CTTCTGCCCG GCCATGAACC ACCATTTCCG CCCGCCTTCC GGGTCTCCCT CAGAGTGTGG	CCTACTTCCA GCTGGCAATT CGGAGGGCGG GCTGGAACAA GTGCGAGTTC CCGCTTCTCC TGTCGGCCTC CATCCTCTTC TCCTGCCACA CCATTGTCTA CTGCCACCT GCTCCACCG GAGCCTGCCC TCCCTCCACT	GCTGTGGACC CGGTGGCCAT TCTGAGTGCG GAGAAGGTCA TCATGGTCCT CTCCGGCGAC CTCTTTGCCC AGCCCAGCAT TGCCTTCCGC GCACCTCCCA CCCACATCCA CAGCTGGGCT AGGAGTTAAC	GCTACCTCCG AGCCGGCTGC GTGGAGCGGG TCAGCATGGA CATCTACCTG CCGCAGAAGT TCAGCTGGCT CCTTACCTAC ATCCAGAAGT TTGACGAGGA GTGGGGTCTC GTTGGCTGGG TACCCTACAC

- (2) INFORMATION FOR SEQ ID NO:2424:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1687 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2424:
 - 1 CCCAGCCCCG AGGCTCAGAA GCGGCAGGCG GAGGCGCGGT CCGGGCGCTA TGGCCATGCC
 - 61 CGGCGGGTCT CACGCGGCTG CCCCTCGCCC GGCGCGCCTT CGGTAGGGGG CGCCCGGGGC
 - 121 CCAGCTGGCC CGGCCATGCT GCTGGAGACA CAGGACGCGC TGTACGTGGC GCTGGAGCTG
 - 181 GTCATCGCCG CGCTTTCGGT GGCGGGCAAC GTGCTGGTGT GCGCCGCGGT GGGCACGGCG 241 AACACTCTGC AGACGCCCAC CAACTACTTC CTGGTGTCCC TGGCTGCGGC CGACGTGGCC
 - 301 GTGGGGCTCT TCGCCATCCC CTTTGCCATC ACCATCAGCC TGGGCTTCTG CACTGACTTC
 - 361 TACGGCTGCC TCTTCCTCGC CTGCTTCGTG CTGGTGCTCA CGCAGAGCTC CATCTTCAGC
 - 421 CTTCTGGCCG TGGCAGTCGA CAGATACCTG GCCATCTGTG TCCCGCTCAG GTATAAAAGT
 - 481 TTGGTCACGG GGACCCGAGC AAGAGGGGTC ATTGCTGTCC TCTGGGTCCT TGCCTTTGGC
 - 541 ATCGGATTGA CTCCATTCCT GGGGTGGAAC AGTAAAGACA GTGCCACCAA CAACTGCACA
 - 601 GAACCCTGGG ATGGAACCAC GAATGAAAGC TGCTGCCTTG TGAAGTGTCT CTTTGAGAAT
 - 661 GTGGTCCCCA TGAGCTACAT GGTATATTTC AATTTCTTTG GGTGTGTTCT GCCCCCACTG
 - 721 CTTATAATGC TGGTGATCTA CATTAAGATC TTCCTGGTGG CCTGCAGGCA GCTTCAGCGC 781 ACTGAGCTGA TGGACCACTC GAGGACCACC CTCCAGCGGG AGATCCATGC AGCCAAGTCA
 - 841 CTGGCCATGA TTGTGGGGAT TTTTGCCCTG TGCTGGTTAC CTGTGCATGC TGTTAACTGT
 - 901 GTCACTCTTT TCCAGCCAGC TCAGGGTAAA AATAAGCCCA AGTGGGCAAT GAATATGGCC
 - 961 ATTCTTCTGT CACATGCCAA TTCAGTTGTC AATCCCATTG TCTATGCTTA CCGGAACCGA
 - 1021 GACTTCCGCT ACACTTTTCA CAAAATTATC TCCAGGTATC TTCTCTGCCA AGCAGATGTC
 - 1081 AAGAGTGGGA ATGGTCAGGC TGGGGTACAG CCTGCTCTCG GTGTGGGCCT ATGATCTAGG
 1141 CTCTCGCCTC TTCCAGGAGA AGATACAAAT CCACAAGAAA CAAAGAGGAC ACGGCTGGTT
 - 1201 TTCATTGTGA AAGATAGCTA CACCTCACAA GGAAATGGAC TGCCTCTCTT GAGCACTTCC
 - 1261 CTGGAGCTAC CACGTATCTA GCTAATATGT ATGTGTCAGT AGTAGCACCA AGGATTGACA
 - 1321 AATATATTA TGATCTATTC AGCTGCTTTT ACTGTGGGA TTATGCCAAC AGCTTGAATG
 - 1381 GATTCTAACA GACTCTTTTG TTTTTAAAAG TCTGCCTTGT TTATGGTGGA AAATTACTGA
 - 1441 AACTATTTTA CTGTGAAACA GTGTGAACTA TTATAATGCA AATACTTTTT AACTTAGAGG
 - 1501 CAATGGAAAA ATAAAAGTTG ACTGTACTAA AAATGTATAC TTGTTGCCAG GAAGGTGACC
 - 1561 TCAAAAATTA AAAGTATAAT TATTCGGCCG GGCATGGTGG CTCACACCTG TAATTCCAGC
 - 1621 ACTTTGGGAG GCCAAGGCAG GCGGATCACG AGGTCAGGAG TTCAAAACCA GCCTGTCCAA
 - 1681 TATAGTG
 - (2) INFORMATION FOR SEQ ID NO:2425:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1733 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2425:
 - 1 GGGCAATTTG TTAGTTATCC GCCGCCACCA AGACGCGGCA CGGCGCCTGG ACCGGAGGGG
 - 61 CCCCGCGCGG GCGCGAACTT TGGGCTCGGG CGAGTGGGTG GTGCTCCGCC CAGCCCGAGA
 - 121 CGGGCGGCC CGCGGCCAA TGGGTGCCGC CTCTTGGCCG CGGGGGGCCC CGACCCGTGG
 - 181 GTCCCGGCCA CCAGCGCCCC AGCCCCGAGG CTCAGAAGCG GCAGGCGGAG GCGCGGTCCG
 - 241 GGCGCTATGG CCATGCCCGG CGGGTCTCAC GCGGCTGCCC CTCGCCCGGC GCGCCTTCGG
 - 301 TAGGGGGCGC CCGGGGCCCA GCTGGCCCGG CCATGCTGCT GGAGACACAG GACGCGCTGT
 - 361 ACGTGGCGCT GGAGCTGGTC ATCGCCGCGC TTTCGGTGGC GGGCAACGTG CTGGTGTGCG
 - 421 CCGCGGTGGG CACGGCGAAC ACTCTGCAGA CGCCCACCAA CTACTTCCTG GTGTCCCTGG
 - 481 CTGCGGCCGA CGTGGCCGTG GGGCTCTTCG CCATCCCCTT TGCCATCACC ATCAGCCTGG
 - 541 GCTTCTGCAC TGACTTCTAC GGCTGCCTCT TCCTCGCCTG CTTCGTGCTG GTGCTCACGC 601 AGAGCTCCAT CTTCAGCCTT CTGGCCGTGG CAGTCGACAG ATACCTGGCC ATCTGTGTCC
 - 661 CGCTCAGGTA TAAAAGTTTG GTCACGGGGA CCCGAGCAAG AGGGGTCATT GCTGTCCTCT
 - 721 GGGTCCTTGC CTTTGGCATC GGATTGACTC CATTCCTGGG GTGGAACAGT AAAGACAGTG

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781 CCACCAACAA CTGCACAGAA CCCTGGGATG GAACCACGAA TGAAAGCTGC TGCCTTGTGA
 841 AGTGTCTCTT TGAGAATGTG GTCCCCATGA GCTACATGGT ATATTTCAAT TTCTTTGGGT
 901 GTGTTCTGCC CCCACTGCTT ATAATGCTGG TGATCTACAT TAAGATCTTC CTGGTGGCCT
 961 GCAGGCAGCT TCAGCGCACT GAGCTGATGG ACCACTCGAG GACCACCCTC CAGCGGGAGA
1021 TCCATGCAGC CAAGTCACTG GCCATGATTG TGGGGATTTT TGCCCTGTGC TGGTTACCTG
1081 TGCATGCTGT TAACTGTGTC ACTCTTTTCC AGCCAGCTCA GGGTAAAAAT AAGCCCAAGT
1141 GGGCAATGAA TATGGCCATT CTTCTGTCAC ATGCCAATTC AGTTGTCAAT CCCATTGTCT
1201 ATGCTTACCG GAACCGAGAC TTCCGCTACA CTTTTCACAA AATTATCTCC AGGTATCTTC
1261 TCTGCCAAGC AGATGTCAAG AGTGGGAATG GTCAGGCTGG GGTACAGCCT GCTCTCGGTG
1321 TGGGCCTATG ATCTAGGCTC TCGCCTCTTC CAGGAGAAGA TACAAATCCA CAAGAAACAA
1381 AGAGGACACG GCTGGTTTTC ATTGTGAAAG ATAGCTACAC CTCACAAGGA AATGGACTGC
1441 CTCTCTTGAG CACTTCCCTG GAGCTACCAC GTATCTAGCT AATATGTATG TGTCAGTAGT
1501 AGGCTCCAAG GATTGACAAA TATATTTATG ATCTATTCAG CTGCTTTTAC TGTGTGGATT
1561 ATGCCAACAG CTTGAATGGA TTCTAACAGA CTCTTTTGTT TTTAAAAGTC TGCCTTGTTT
1621 ATGGTGGAAA ATTACTGAAA CTATTTTACT GTGAAACAGT GTGAACTATT ATAATGCAAA
1681 TACTTTTAA CTTAGAGGCA ATGGAAAAAT AAAAGTTGAC TGTACTAAAA ATG
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(2) INFORMATION FOR SEQ ID NO:2426:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2470 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2426:
- 1 GAATTCCCAG ATGGGCAGAG GTGGCTGGGC TGGTGACCCT AAGTGTGTCT CCTGCCTTTA 61 TTCTCTCTAG TGGGTTATTC TTTCATGTGG TATCTTGCCT ACAGCATGCT GTGTTTGGAC 121 ACAAACCCCT TTCCTTGGTT TCTCTGACCC AGCTGAGATG GACTGATTCC AAAAGAACTC 181 ACCTATGTAC TGGGGTAGGG GAGGGAGGGT TTTTTGCAGT ATTTAACTAA GGTTCAAAGA 301 TCCTAGAAAT TTCTCTTGGT AACTTCCTTC TCTGAAGCAC AGATAAAGAA AACAATTACA 361 GTAGAAACAT TTATGAGGGA CACATTGGAG GCCGATGAAG CTTTTCAAGT TCCAGCAGTG 421 CAGGGATGTG GGCAGAACTG ACATTGGAAA ATACTAGAAT GATGGAAATT CAGTTGGAGA 481 GGACTGCCCT TTTTAATGTC TGGGGAGTCT GCTCAGGGAG AAATGACAAG TCTGGCGGGG 541 ACAAGTATGG GATTTGGTAA GACTTGGATC AACTTGGGAT ACAGGGTGGG GGTCGGGAGT 601 GGAATCAATG AATGATGCCA GAGCAGATCA ACTAACAAGA GGACCCTGAT GAGCCCCAGG 661 CAGAGGCGTC TCCCTTATGC CCCACTCTGA AGTGTTTGTT AGTAAACACC AGAACGCCAT 721 TGTTGTTACT GCTGAATTTT ATTTTGGGCT GTACATATTT AGATGCTTAA GGTAAAAATG 781 ATAAAGCCCT CAAGCCACTG TGTGGGTTTG GGTCCAAGTG TTCCTTCTTG CTGCCTCTCT 841 AACACGCCTG GTTAAAATAA TCCCTTTGGA TGGTGCTGAG AAGCACCTGA ACCAAGTGGG 901 TCCCCAAATA ACAATGGCGT GCAAGTGTCT GGTTCCCAGA AGTTGGTGAC TAGGTAAGCA 961 GCTTCAGGGA GAGGGGGCTG ATTCCCAGAC AGTCGCCTGT TCCTGCGGGG ATGGGGCTGA 1021 GGCTTGGGGA ATGTGGGCAG GAGGATATGC CATTTGATTC TGTTGCACAC GTTCTTTTCC 1081 CTTCTTCTG TATGTCTGGT CATTCTGCTA TTCTGTCGTT CCTCACATAG GTTGGACATT 1141 GGCCGGCTGC CAGCATAAGT GCCAGTGTGA TTTTGCTAGG TGTGAGCTGA GAAAGAGAGG 1201 TGGAGGCTAA GCAGGTGTGA TGCTTCTCAG AGGTGCTGAG TTTTTGCCCT TCTGAGCAGG 1261 GAATCTTTGC TTATCCCTTT GACCAAGGAT CTTTGCTGCA AAGGCTGGGT ATCGGCTGTG 1321 CTCAGCAAAG CGTCAACTCG TGCAAGAACT TAGCAGGAAT AGTTCTGGCT AAGGTTAGGA 1381 GGCTGCCACC AAAGTCTCTT TTTTGTTCCT CTGCTTCTCC CGTTTGCCTC CTTATCATGA 1441 GATCTTTTTG CTAAGCTGGC AGAAAGATTG CATAGTCAGT GCTTCCAGCT CTGCTCCCAC 1501 CTGATCCTGC ACTGTCCTCT GGTCCCTGAA TGAATGAACT CTGATACCCA ATCTTGTCTC 1561 GAGCCTTCTC TATGCCACTC ATGGCTCCTC TTCTGCTCTT TCCATCTTTT TGCTGAGAGT 1621 TCTGAGCTCT GTACTTCCTC TTGGCCCATC TCACTTCCTG AAACACCCCT GAAGAGGGTT 1681 GCTTATCTTG ATGGAACTCA AAAAGCCAAA AAGCTGCAGG CAGAGGCGTT GAGGACATCT 1741 GTTTGGGGAA CTAAGAGCAG CAGCACTTTC AGATTCAGTC CATATAGAGC TGTCCTACAG 1801 CATTCTGGAA ACTTGAGGAT GTGCGGTGCA TAAAGGGGCT GGAAGTGACC CACCTGTGAT 1861 GAGCCCTTTC TAAGGAGAAG GGTTTCCAAG AGATCACCCC ACCAGAAAAG GGTAGGAATG 1921 AGCAAGTTGG GAATTTTAGA CTGTCACTGC ACATGGACCT CTGGGAAGAC GTCTGGCGAG 1981 AGCTAGGCCC ACTGGCCCTA CAGACGGATC TTGCTGGCTC ACCTGTCCCT GTGGAGGTTC 2041 CCCTGGGAAG GCAAGATGCC CAACAACAGC ACTGCTCTGT CATTGGCCAA TGTTACCTAC 2101 ATCACCATGG AAATTTTCAT TGGACTCTGC GCCATAGTGG GCAACGTGCT GGTCATCTGC 2161 GTGGTCAAGC TGAACCCCAG CCTGCAGACC ACCACCTTCT ATTTCATTGT CTCTCTAGCC 2221 CTGGCTGACA TTGCTGTTGG GGTGCTGGTC ATGCCTTTGG CCATTGTTGT CAGCCTGGGC

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2281 ATCACAATCC ACTTCTACAG CTGCCTTTTT ATGACTTGCC TACTGCTTAT CTTTACCCAC
     2341 GCCTCCATCA TGTCCTTGCT GGCCATCGCT GTGGACCGAT ACTTGCGGGT CAAGCTTACC
     2401 GTCAGGTAGC CTGCGGCGTG GGGTGGGCAG CAATTGAGGC AGCTGGGAAA TGAGGCTACA
      2461 AAGCCAGAGC
 (2) INFORMATION FOR SEQ ID NO:2427:
        (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 1771 base pairs
          (B) TYPE: nucleic acid
          (C) STRANDEDNESS: single
          (D) TOPOLOGY: linear
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2427:
        1 CGAATTCGGG GGACATCTGT TTGGGGAACT AAGAGCAGCA GCACTTTCAG ATTCAGTCCA
       61 TATAGAGCTG TCCTACAGCA TTCTGGAAAC TTGAGGATGT GCGGTGCATA AACGGGCTGG
      121 AAGTGACCCA CCTGTGATGA GCCCTTTCTA AGGAGAAGGG TTTCCAAGAG ATCACCCCAC
      181 CAGAAAAGGG TAGGAATGAG CAAGTTGGGA ATTTTAGACT GTCACTGCAC ATGGACCTCT
      241 GGGAAGACGT CTGGCGAGAG CTAGGCCCAC TGGCCCTACA GACGGATCTT GCTGGCTCAC
      301 CTGTCCCTGT GGAGGTTCCC CTGGGAAGGC AAGATGCCCA ACAACAGCAC TGCTCTGTCA
      361 TTGGCCAATG TTACCTACAT CACCATGGAA ATTTTCATTG GACTCTGCGC CATAGTGGGC
      421 AACGTGCTGG TCATCTGCGT GGTCAAGCTG AACCCCAGCC TGCAGACCAC CACCTTCTAT
      481 TTCATTGTCT CTCTAGCCCT GGCTGACATT GCTGTTGGGG TGCTGGTCAT GCCTTTGGCC
      541 ATTGTTGTCA GCCTGGGCAT CACAATCCAC TTCTACAGCT GCCTTTTTAT GACTTGCCTA
      601 CTGCTTATCT TTACCCACGC CTCCATCATG TCCTTGCTGG CCATCGCTGT GGACCGATAC
      661 TTGCGGGTCA AGCTTACCGT CAGATACAAG AGGGTCACCA CTCACAGAAG AATATGGCTG
      721 GCCCTGGGCC TTTGCTGGCT GGTGTCATTC CTGGTGGGAT TGACCCCCAT GTTTGGCTGG
      781 AACATGAAAC TGACCTCAGA GTACCACAGA AATGTCACCT TCCTTTCATG CCAATTTGTT
      841 TCCGTCATGA GGATGGACTA CATGGTATAC TTCAGCTTCC TCACCTGGAT TTTCATCCCC
      901 CTGGTTGTCA TGTGCGCCAT CTATCTTGAC ATCTTTTACA TCATTCGGAA CAAACTCAGT
      961 CTGAACTTAT CTAACTCCAA AGAGACAGGT GCATTTTATG GACGGGAGTT CAAGACGGCT
     1021 AAGTCCTTGT TTCTGGTTCT TTTCTTGTTT GCTCTGTCAT GGCTGCCTTT ATCTCTCATC
     1081 AACTGCATCA TCTACTTTAA TGGTGAGGTA CCACAGCTTG TGCTGTACAT GGGCATCCTG
     1141 CTGTCCCATG CCAACTCCAT GATGAACCCT ATCGTCTATG CCTATAAAAT AAAGAAGTTC
     1201 AAGGAAACCT ACCTTTTGAT CCTCAAAGCC TGTGTGGTCT GCCATCCCTC TGATTCTTTG
     1261 GACACAAGCA TTGAGAAGAA TTCTGAGTAG TTATCCATCA GAGATGACTC TGTCTCATTG
     1321 ACCTTCAGAT TCCCCATCAA CAAACACTTG AGGGCCTGTA TGCCTGGGCC AAGGGATTTT
     1381 TACATCCTTG ATTACTTCCA CTGAGGTGGG AGCATCTCCA GTGCTCCCCA ATTATATCTC
    1441 CCCCACTCCA CTACTCTCTT CCTCCACTTC ATTTTTCCTT TGTCCTTTCT CTCTAATTCA
    1501 GTGTTTTGGA GGCCTGACTT GGGGACAACG TATTATTGAT ATTATTGTCT GTTTTCCTTC
    1561 TTCCCAATAG AAGAATAAGT CATGGAGCCT GAAGGGTGCC TAGTTGACTT ACTGACAAAA
    1621 GGCTCTAGTT GGGCTGAACA TGTGTGTGGT GGTGACTCAT TTCCATGCCA TTGTGGAATT
    1681 GAGCAGAGAA CCTGCTCTCG GAGGATGCCT AGGAGATGTT GGGAACAGAA GAAATAAACT
    1741 GAGTTTAAGG GGGACTTAAA CTGCTGAATT C
(2) INFORMATION FOR SEQ ID NO:2428:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 2100 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2428:
       1 GCCGCCGCCG CCAAGATGGC GGACCTGGAG GCGGTGCTGG CCGACGTGAG CTACCTGATG
      61 GCCATGGAGA AGAGCAAGGC CACGCCGGCC GCGCGCCCA GCAAGAAGAT ACTGCTGCCC
     121 GAGCCCAGCA TCCGCAGTGT CATGCAGAAG TACCTGGAGG ACCGGGGCGA GGTGACCTTT
     181 GAGAAGATCT TTTCCCAGAA GCTGGGGTAC CTGCTCTTCC GAGACTTCTG CCTGAACCAC
     241 CTGGAGGAGG CCAGGCCCTT GGTGGAATTC TATGAGGAGA TCAAGAAGTA CGAGAAGCTG
     301 GAGACGGAGG AGGAGCGTGT GGCCCGCAGC CGGGAGATCT TCGACTCATA CATCATGAAG
     361 GAGCTGCTGG CCTGCTCGCA TCCCTTCTCG AAGAGTGCCA CTGAGCATGT CCAAGGCCAC
     421 CTGGGGAAGA AGCAGGTGCC TCCGGATCTC TTCCAGCCAT ACATCGAAGA GATTTGTCAA
     481 AACCTCCGAG GGGACGTGTT CCAGAAATTC ATTGAGAGCG ATAAGTTCAC ACGGTTTTGC
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541 CAGTGGAAGA ATGTGGAGCT CAACATCCAC CTGACCATGA ATGACTTCAG CGTGCATCGC
601 ATCATTGGGC GCGGGGGCTT TGGCGAGGTC TATGGGTGCC GGAAGGCTGA CACAGGCAAG
661 ATGTACGCCA TGAAGTGCCT GGACAAAAAG CGCATCAAGA TGAAGCAGGG GGAGACCCTG
721 GCCCTGAACG AGCGCATCAT GCTCTCGCTC GTCAGCACTG GGGACTGCCC ATTCATTGTC

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781 TGCATGTCAT ACGCGTTCCA CACGCCAGAC AAGCTCAGCT TCATCCTGGA CCTCATGAAC
 841 GGTGGGGACC TGCACTACCA CCTCTCCCAG CACGGGGTCT TCTCAGAGGC TGACATGCGC
 901 TTCTATGCGG CCGAGATCAT CCTGGGCCTG GAGCACATGC ACAACCGCTT CGTGGTCTAC
 961 CGGGACCTGA AGCCAGCCAA CATCCTTCTG GACGAGCATG GCCACGTGCG GATCTCGGAC
1021 CTGGGCCTGG CCTGTGACTT CTCCAAGAAG AAGCCCCATG CCAGCGTGGG CACCCACGGG
1081 TACATGGCTC CGGAGGTCCT GCAGAAGGGC GTGGCCTACG ACAGCAGTGC CGACTGGTTC
1141 TCTCTGGGGT GCATGCTCTT CAAGTTGCTG CGGGGGCACA GCCCCTTCCG GCAGCACAAG
1201 ACCAAAGACA AGCATGAGAT CGACCGCATG ACGCTGACGA TGGCCGTGGA GCTGCCCGAC
1261 TCCTTCTCCC CTGAACTACG CTCCCTGCTG GAGGGGTTGC TGCAGAGGGA TGTCAACCGG
1321 AGATTGGGCT GCCTGGGCCG AGGGGCTCAG GAGGTGAAAG AGAGCCCCTT TTTCCGCTCC
1381 CTGGACTGGC AGATGGTCTT CTTGCAGAAG TACCCTCCCC CGCTGATCCC CCCACGAGGG
1441 GAGGTGAACG CGGCCGACGC CTTCGACATT GGCTCCTTCG ATGAGGAGGA CACAAAAGGA
1501 ATCAAGTTAC TGGACAGTGA TCAGGAGCTC TACCGCAACT TCCCCCTCAC CATCTCGGAG
1561 CGGTGGCAGC AGGAGGTGGC AGAGACTGTC TTCGACACCA TCAACGCTGA GACAGACCGG
1621 CTGGAGGCTC GCAAGAAAGC CAAGAACAAG CAGCTGGGCC ATGAGGAAGA CTACGCCCTG
1681 GGCAAGGACT GCATCATGCA TGGCTACATG TCCAAGATGG GCAACCCCTT CCTGACCCAG
1741 TGGCAGCGGC GGTACTTCTA CCTGTTCCCC AACCGCCTCG AGTGGCGGGG CGAGGGCGAG
1801 GCCCGCAGA GCCTGCTGAC CATGGAGGAG ATCCAGTCGG TGGAGGAGAC GCAGATCAAG
1861 GAGCGCAAGT GCCTGCTCCT CAAGATCCGC GGTGGGAAAC AGTTCATTTT GCAGTGCGAT
1921 AGCGACCCTG AGCTGGTGCA GTGGAAGAAG GAGCTGCGCG ACGCCTACCG CGAGGCCCAG
1981 CAGCTGGTGC AGCGGTGCC CAAGATGAAG AACAAGCCGC GCTCGCCCGT GGTGGAGCTG
2041 AGCAAGGTGC CGCTGGTCCA GCGCGGCAGT GCCAACGGCC TCTGACCCGC CCACCCGCCT
```

(2) INFORMATION FOR SEQ ID NO:2429:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2375 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2429:
- 1 CCAGGAAGCT ACCTGGAGGA GGTGAGTCTT AGCGGATGAG TAGGAGTTGT CCACGGAGGA 61 AGGTACACAG AAGGGCTTCC AGGCCCAGGA AACAGCAGAG GCACAGAAGT GAGAATGGGT 121 GGGTGAGTTG GTGGGGAAAC TCCAGGTGCA GAGGATGGTA GCGAAACAAA CTGGAGCATT 181 AAGGTCCAAG TCCTCCAAGA TCTTGACTTG CAGATTAAGG AGTTTGTTCA CCTAATCTGC 301 GAAGGCCTGG AGAGCTGCTT CTGGGTGCCA AGCAGGCAGT GACTCCATCA GATCTAGATT 361 TGGGAAAAGC ATCCCTGGTC AGGGCCTGCA TCAGGGCAGT GGCTGGCCAT GAGGACCCTG 421 AGAAGTAGAC AGATTCACGG AGATTCTCAG GAGGCCAGAC AGGAGACTAT GGTGACAAAT 481 TAGATTAGAG AAGGGGAGAG AATGAAGGAG CAGTTGGGGT AAAAGAAAAC TGAGGCTGAC 541 ATGGGTATAT GGGTGGCGAG TGACTCACCA CCCACTGAGA GGAGAACCTC ACAAGCTCTG 601 ACATGCTCTG GTTCCAGGTT CTGTTGGGGC TGATCCAAGA TGGTAGCCTA GAGGTGCACA 661 GAGATGGGGG CCTTGCTTTG CAAAAGGATG CTGGCTGCTG GCCCACAGCA TGGTAATGAG 721 ATTTGAGCTT TATGTGCCCA GGGCTGGGAG GAGGGTCCTG TCACTTTGAA AGCAAAGAGA 781 GGCTCTAGAG AGGGGCATGT TGAGATAGGA ATGCTGCCTT GAGACACCTG GCTTTCCCCA 841 CTCTGGGTGG CTCTCAGCAG GGTGGGTTTC CCCTGCCAGG CAGCACTGAA CCTCTGTGCG 901 CTTCCGGCTG GGAGAGTTTT TACCGTAACT ACATGTGGAA CCATCCTGAA GGAACATCTG 961 GATGGGATGG GGTACAGGGA AGGGAGCTGC CAAGAGTGCT GGCCAGGGAC CTGGGTCTAT 1021 GAGCTGGTTG GGGGGTGGGG TTGGGTGCAG GGTACTTGAT CCTGAGTGGG CCTTCTGCGG 1081 CCAGGATTGG TTCTAGAGTA GGAGGGGTGG GATCGGGGAT GGGGGAAGCC TGTAACTGCG 1141 CTGCAGTTGT CAGGTCCCAG GTTCTGGGTG ACCTACTAAG GATTCTGGGT CCAGTGTGGG 1201 TCCCAGGTTA GACGTCCTAG TCCTGAGTCC GTGTCCACAG TTCTGGGTGT TGAGTCTAGG 1261 ACAGTGATCT GGAGTTGACA GTCCAATCTA GGTCTGAGTC CTGACCCCAA GTCTAGAGTT 1321 CAGGGTCATG GTAGTAGCCT AGGGTCAGAA TCAAGGTTGG GGTCAGTAAC CAGGATGGGA 1381 TCGAGGTCAT GGTCCAAAAT CTGGATCTGG GGACCTGTTG GGGGTCTGAG GTGAGTGTCG 1441 CAGTCTGGGT ATGGCGTTGG AGACCCAGGG CTGTGATCTG AGGTCATGGT TAGAGTCTCA 1501 GGTGGTGGGC CAAGGTTTGA GTCTGGGGTC CTGTTTGGAG TCTGGTGTCA GGTCGTGGAC 1561 TGCGTCCAAG GTCAGGGAGT CCGGGGTTAT AGCCAGGGTC TGAGATGAAA GTCCCAGATG 1621 GTGTTCAGAG GTCTGAATCT GTGTCTTGGT GAGCGTCCAG GTTCCCTGTG ATCACGTTTG 1681 GTGTCAGGGC TGCGGCCCGA CTGGGGAGCC TGGGATCCAG AGATGTGACC CGAGGTTGTG 1741 GTCAGAGAAT GGGTCTCGGG TCGTCTTCGT GCCGGGTCCC TGTCGTGTTC CAGGCCCGGG 1801 TCTCCGTCCA GCATCGAGGG CCGAGGTCAC GGCCAGGGTC TGAGCCCGCG GTCGCAGGTC 1861 TGGTTCGGGG TCAGATTCCG CGCGGCCTCC AGGGGGCGCC GTCGCCGCCC GGCTCGGCCC

- (2) INFORMATION FOR SEQ ID NO:2430:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4382 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2430:

(/	OPECHNOL DE	CONTLITION. DE	10 ID NO.2430.			
GCCGCCGCCG	CCAAGATGGC	GGACCTGGAG	GCGGTGCTGG	CCGACGTGAG	CTACCTGATG	GCCATGGAGA
AGAGCAAGGC	CACGCCGGCC	GCGCGCCA	GCAAGAAGAT	ACTGCTGCCC	GAGCCCAGCA	TCCGCAGTGT
CATGCAGAAG	TACCTGGAGG	ACCGGGGCGA	GGTGACCTTT	GAGAAGATCT	TTTCCCAGAA	GCTGGGGTAC
CTGCTCTTCC	GAGACTTCTG	CCTGAACCAC	CTGGAGGAGG	CCAGGCCCTT	GGTGGAATTC	TATGAGGAGA
TCAAGAAGTA	CGAGAAGCTG	GAGACGGAGG	AGGAGCGTGT	GGCCCGCAGC	CGGGAGATCT	TCGACTCATA
CATCATGAAG	GAGCTGCTGG	CCTGCTCGCA	TCCCTTCTCG	AAGAGTGCCA	CTGAGCATGT	CCAAGGCCAC
CTGGGGAAGA	AGCAGGTGCC	TCCGGATCTC	TTCCAGCCAT	ACATCGAAGA	GATTTGTCAA	AACCTCCGAG
GGGACGTGTT	CCAGAAATTC	ATTGAGAGCG	ATAAGTTCAC	ACGGTTTTGC	CAGTGGAAGA	ATGTGGAGCT
CAACATCCAC	CTGACCATGA	ATGACTTCAG	CGTGCATCGC	ATCATTGGGC	GCGGGGGCTT	TGGCGAGGTC
TATGGGTGCC	GGAAGGCTGA	CACAGGCAAG	ATGTACGCCA	TGAAGTGCCT	GGACAAAAAG	CGCATCAAGA
TGAAGCAGGG	GGAGACCCTG	GCCCTGAACG	AGCGCATCAT	GCTCTCGCTC	GTCAGCACTG	GGGACTGCCC
ATTCATTGTC	TGCATGTCAT	ACGCGTTCCA	CACGCCAGAC	AAGCTCAGCT	TCATCCTGGA	CCTCATGAAC
GGTGGGGACC	TGCACTACCA	CCTCTCCCAG	CACGGGGTCT	TCTCAGAGGC	TGACATGCGC	TTCTATGCGG
CCGAGATCAT	CCTGGGCCTG	GAGCACATGC	ACAACCGCTT	CGTGGTCTAC	CGGGACCTGA	AGCCAGCCAA
CATCCTTCTG	GACGAGCATG	GCCACGTGCG	GATCTCGGAC	CTGGGCCTGG	CCTGTGACTT	CTCCAAGAAG
AAGCCCCATG	CCAGCGTGGG	CACCCACGGG	TACATGGCTC	CGGAGGTCCT	GCAGAAGGGC	GTGGCCTACG
ACAGCAGTGC	CGACTGGTTC	TCTCTGGGGT	GCATGCTCTT	CAAGTTGCTG	CGGGGGCACA	GCCCCTTCCG
GCAGCACAAG	ACCAAAGACA	AGCATGAGAT	CGACCGCATG	ACGCTGACGA	TGGCCGTGGA	GCTGCCCGAC
TCCTTCTCCC	CTGAACTACG	CTCCCTGCTG	GAGGGGTTGC	TGCAGAGGGA	TGTCAACCGG	AGATTGGGCT
GCCTGGGCCG	AGGGGCTCAG	GAGGTGAAAG	AGAGCCCCTT	TTTCCGCTCC	CTGGACTGGC	AGATGGTCTT
CTTGCAGAAG	TACCCTCCCC	CGCTGATCCC	CCCACGAGGG	GAGGTGAACG	CGGCCGACGC	CTTCGACATT
GGCTCCTTCG	ATGAGGAGGA	CACAAAAGGA	ATCAAGTTAC	TGGACAGTGA	TCAGGAGCTC	TACCGCAACT
TCCCCCTCAC	CATCTCGGAG	CGGTGGCAGC	AGGAGGTGGC	AGAGACTGTC	TTCGACACCA	TCAACGCTGA
GACAGACCGG	CTGGAGGCTC	GCAAGAAAGC	CAAGAACAAG	CAGCTGGGCC	ATGAGGAAGA	CTACGCCCTG
GGCAAGGACT	GCATCATGCA	TGGCTACATG	TCCAAGATGG	GCAACCCCTT	CCTGACCCAG	TGGCAGCGGC
GGTACTTCTA	CCTGTTCCCC	AACCGCCTCG	AGTGGCGGGG	CGAGGGCGAG	GCCCGCAGA	GCCTGCTGAC
CATGGAGGAG	ATCCAGTCGG	TGGAGGAGAC	GCAGATCAAG	GAGCGCAAGT	GCCTGCTCCT	CAAGATCCGC
GGTGGGAAAC	AGTTCATTTT	GCAGTGCGAT	AGCGACCCTG	AGCTGGTGCA	GTGGAAGAAG	GAGCTGCGCG
ACGCCTACCG	CGAGGCCCAG	CAGCTGGTGC	AGCGGGTGCC	CAAGATGAAG	AACAAGCCGC	GCTCGCCCGT
GGTGGAGCTG	AGCAAGGTGC	CGCTGGTCCA	GCGCGGCAGT	GCCAACGGCC	TCTGACCCGC	CCACCCGCCT
CCAGGAAGCT	ACCTGGAGGA	GGTGAGTCTT	AGCGGATGAG	TAGGAGTTGT	CCACGGAGGA	AGGTACACAG
AAGGGCTTCC	AGGCCCAGGA	AACAGCAGAG	GCACAGAAGT	GAGAATGGGT	GGGTGAGTTG	GTGGGGAAAC
TCCAGGTGCA	GAGGATGGTA	GCGAAACAAA	CTGGAGCATT	AAGGTCCAAG	TCCTCCAAGA	TCTTGACTTG
CAGATTAAGG	AGTTTGTTCA	CCTAATCTGC	TTTGGGCAGA	GTGTGGTGAG	TCCTAGAGAC	CCCTCTAGGT
CTCTCCTCTC	AGTAGCCCCA	GAAGGCCTGG	AGAGCTGCTT	CTGGGTGCCA	AGCAGGCAGT	GACTCCATCA
GATCTAGATT	TGGGAAAAGC	ATCCCTGGTC	AGGGCCTGCA	TCAGGGCAGT	GGCTGGCCAT	GAGGACCCTG
AGAAGTAGAC	AGATTCACGG	AGATTCTCAG	GAGGCCAGAC	AGGAGACTAT	GGTGACAAAT	TAGATTAGAG
AAGGGGAGAG	AATGAAGGAG	CAGTTGGGGT	AAAAGAAAAC	TGAGGCTGAC	ATGGGTATAT	GGGTGGCGAG
TGACTCACCA	CCCACTGAGA	GGAGAACCTC	ACAAGCTCTG	ACATGCTCTG	GTTCCAGGTT	CTGTTGGGGC
TGATCCAAGA	TGGTAGCCTA	GAGGTGCACA	GAGATGGGGG	CCTTGCTTTG	CAAAAGGATG	CTGGCTGCTG
GCCCACAGCA	TGGTAATGAG	ATTTGAGCTT	TATGTGCCCA	GGGCTGGGAG	GAGGGTCCTG	
AGCAAAGAGA	GGCTCTAGAG	AGGGGCATGT	TGAGATAGGA			TCACTTTGAA
CTCTGGGTGG	CTCTCAGCAG	GGTGGGTTTC	CCCTGCCAGG	ATGCTGCCTT CAGCACTGAA	GAGACACCTG	GCTTTCCCCA
GGAGAGTTTT	TACCGTAACT	ACATGTGGAA	CCATCCTGAA		CCTCTGTGCG	CTTCCGGCTG
AGGGAGCTGC	CAAGAGTGCT	GGCCAGGGAC	CTGGGTCTAT	GGAACATCTG GAGCTGGTTG	GATGGGATGG	GGTACAGGGA
GGTACTTGAT	CCTGAGTGGG	CCTTCTGCGG	CCAGGATTGG		GGGGGTGGG	TTGGGTGCAG
	221011010	CCITCIGCGG	CCAGGAIIGG	TTCTAGAGTA	GGAGGGGTGG	GATCGGGGAT

GGGGGAAGCC	TGTAACTGCG	CTGCAGTTGT	CAGGTCCCAG	GTTCTGGGTG	ACCTACTAAG	GATTCTGGGT
CCAGTGTGGG	TCCCAGGTTA	GACGTCCTAG	TCCTGAGTCC	GTGTCCACAG	TTCTGGGTGT	TGAGTCTAGG
ACAGTGATCT	GGAGTTGACA	GTCCAATCTA	GGTCTGAGTC	CTGACCCCAA	GTCTAGAGTT	CAGGGTCATG
GTAGTAGCCT	AGGGTCAGAA	TCAAGGTTGG	GGTCAGTAAC	CAGGATGGGA	TCGAGGTCAT	GGTCCAAAAT
CTGGATCTGG	GGACCTGTTG	GGGGTCTGAG	GTGAGTGTCG	CAGTCTGGGT	ATGGCGTTGG	AGACCCAGGG
CTGTGATCTG	AGGTCATGGT	TAGAGTCTCA	GGTGGTGGGC	CAAGGTTTGA	GTCTGGGGTC	CTGTTTGGAG
TCTGGTGTCA	GGTCGTGGAC	TGCGTCCAAG	GTCAGGGAGT	CCGGGGTTAT	AGCCAGGGTC	TGAGATGAAA
GTCCCAGATG	GTGTTCAGAG	GTCTGAATCT	GTGTCTTGGT	GAGCGTCCAG	GTTCCCTGTG	ATCACGTTTG
GTGTCAGGGC	TGCGGCCCGA	CTGGGGAGCC	TGGGATCCAG	AGATGTGACC	CGAGGTTGTG	GTCAGAGAAT
GGGTCTCGGG	TCGTCTTCGT	GCCGGGTCCC	TGTCGTGTTC	CAGGCCCGGG	TCTCCGTCCA	GCATCGAGGG
CCGAGGTCAC	GGCCAGGGTC	TGAGCCCGCG	GTCGCAGGTC	TGGTTCGGGG	TCAGATTCCG	CGCGGCCTCC
AGGGGGCGCC	GTCGCCGCCC	GGCTCGGCCC	CTCGCGGGCT	CGCTGGCGTT	GTGCGCGGCA	GGCGGGGCCG
GAGGCGGCGG	CGGCTCCGGG	GGCGCGGGCC	GGGCGGCGGC	GGCGGCGGCG	CCCCGACTGC	AGTCCCGGCG
GGAGCGGAGC	GCGAAGCGCG	GGGCCGGGCC	CGGAGCCGGC	GCCATGGGGC	GGCGCCGCCT	GTGAGCGGCG
GCGAGCGGAG	CCGCGGGCGC	CGAGCAGGGC	CAGGCGGGAG	CGTCGGCGCC	CGAGGCCGAG	CGAGCCGCGG
CCGGGCCGGG	CCGAGCGCCG	AGCGAGCAGG	AGCGGCGGCG	GCGGCGGCGG	CGGCGGGAGG	AGGCAGCGCC
GCCGCCAAGA	TGGCGGACCT	GGAGGCGGTG	CTGGCCGACG	TGAGCTACCT	GATGGCCATG	GAGAAGAGCA
AGGCCACGCC	GGCCGCGCGC	GCCAGCAAGA	AGATACTGCT	GCCCGAGCC	C AGGTGAGG	AG AAGCT
4382						

- (2) INFORMATION FOR SEQ ID NO:2431:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2599 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2431:
- 1 CAGATTCACA AACTGCAGGA CTGGGCAGGG AGCAGACAGT GAGCAAACGC CAGCAGGGCT 61 GCTGTGAATT TGTGTAAGGA TTGAGGGACA GTTGCTTTTC AGCATGGGCC CAGGAATGCC 121 AAGGAGACAT CTATGCACGA CCTTGGGAAA TGAGTTGATG TCTCCGGTAA AACACCGGAG 181 ACTAATTCCT GCCCTGCCCA ATTTTGCAGG GAGCATGGCT GTGAGGATGG GGTGAACTCA 241 CGCACAGCCA AGGACTCCAA AATCACAACA GCATTACTGT TCTTATTTGC TGCCACACCT 301 GAGCCAGCCT GCTCCTTCCC AGGAGTGGAG GAGGCCTGGG GGGAGGGAGA GGAGTGACTG 361 AGCTTCCCTC CCGTGTGTTC TCCGTCCCTG CCCCAGCAAG ACAACTTAGA TCTCCAGGAG 421 AACTGCCATC CAGCTTTGGT GCAATGGCTG AGTGCACAAG TGAGTTGTTG CCCTGGGTTT 481 CTTTAATCTA TTCAGCTAGA ACTTTGAAGG ACAATTTCTT GCATTAATAA AGGTTAAGCC 541 CTGAGGGGTC CCTGATAACA ACCTGGAGAC CAGGATTTTA TGGCTCCCCT CACTGATGGA 601 CAAGGAGGTC TGTGCCAAAG AAGAATCCAA TAAGCACATA TTGAGCACTT GCTGTATATG 661 CAGTATTGAG CACTGTAGGC AAGACCCAAG AAAGAGAAGG AGCCATCTCC ATCTTGAAGG 721 AACTCAAAGA CTCAAGTGGG AACGACTGGG CACTGCCACC ACCAGAAAGC TGTTCGACGA 781 GACGGTCGAG CAGGGTGCTG TGGGTGATAT GGACAGCAGA AGGGGGAGAC CAAGGTTCCA 841 GCTCAACCAA TAACTATTGC ACAACCACCT GTCCCTGCCT CAGTTCCCTT TTATGTAACA 901 TGAAGTCGTT GTGAGGGTTA AAGGCAGTAA CAGGTATAAA GTACTTAGAA AAGCAAAGGG 961 TGCTACGTAC ATGTGAGGCA TCATTACGCA GACGTAACTG GGATATGTTT ACTATAAGGA 1021 AAAGACACTG AGGTCTAGAA ATAGCTCCGT GGAGCAGAAT CAGTATTGGG AGCCGGTGGC 1081 GGTGTGAAGC ACCAGTGTCT GGCACACAGT AGGTGCTCAT TGGCTCCCTT CCACCTGTCA 1141 TTCCCACCAC CCTGAGGCCC CAACCGCCAC ACACACAGGA GCATTTGGAG AGAAGGCCAT 1201 GTCTTCAAAG TCTGATTTGT GATGAGGCAG AGGAAGATAT TTCTAATCGG TCTTGCCCAG 1261 AGGATCACAG TGCTGAGACC CCCCACCACC AGCCGGTACC TGGGAAGGGG GAGAGTGCAG 1321 GCCTGCTCAG GGACTGTTCC TGTCTCAGCA ACCAAGGGAT TGTTCCTGTC AATCAATGGT 1381 TTATTGGAAG GTGGCCCAGT ATGAGCCCTA GAAGAGTGTG AAAAGGAATG GCAATGGTGT 1441 TCACCATCGG CAGTGCCAGG GCAGCACTCA TTCACTTGAT AAATGAATAT TTATTAGCTG 1501 GTTGGAGAGC TAGAACCTGG AGAGCTAGAA CCTGGAGAAC TAGAACCTGG AGGGCTAGAA 1561 CCTGGAGAGG CTAGAACCAA GAAGGGCTAG AACCTGGAGG GGCTAGAACC TAGAGAAGCT 1621 AAAACCTGAG CTAGAAGCTG GAGGACTAGA ACCTGGAGGG CTGGAATCTG AAGGGCTAGA 1681 ACCTGGAGGG CTGGAATCTG GAGAGCTAGA ACCTGGAGGG CTAGAACCTG GAGGGCTAGA 1741 ACCTAGAAGG GCTAGAACCT GGAGGGCTGG AATCTGGAGA GCTAGAACCT GGAGGGCTAG 1801 AACCTGGAGG GCTAGAACCT AGAAGGGCTA GAACCTGGAG GGCTAGAACC TGGCAGGTTA 1861 GAACCTAGAA GGGCTAGAAC CTGGAGAGCC AGAACCTGGA GGGCTAGAAC CTGGAAGGGC 1921 TAGAACCTGT AGAGCTAGAA CATGGAGAGC TAGAACCCGG CAGGCTAGAA CCTGGCAAGC 1981 TAGAACCTGG AGGGAATGAA CCTGGAGGGC TAGAACCTGG AGAATGAGAA AAATTTACAT 2041 GGCAAAGAGC CCATAAATCC TGACCAATCC AACTCTGAAT TTTAAAGCAA AAGCGTGAAA

(2) INFORMATION FOR SEQ ID NO:2432:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 981 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2432:

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1 ATGCCGCCCT CCATCTCAGC TTTCCAGGCC GCCTACATCG GCATCGAGGT GCTCATCGCC
 61 CTGGTCTCTG TGCCCGGGAA CGTGCTGGTG ATCTGGGCGG TGAAGGTGAA CCAGGCGCTG
121 CGGGATGCCA CCTTCTGCTT CATCGTCTCG CTGGCGGTGG CTGATGTGGC CGTGGGTGCC
181 CTGGTCATCC CCCTCGCCAT CCTCATCAAC ATTGGGCCAC AGACCTACTT CCACACCTGC
241 CTCATGGTTG CCTGTCCGGT CCTCATCCTC ACCCAGAGCT CCATCCTGGC CCTGCTGGCA
301 ATTGCTGTGG ACCGCTACCT CCGGGTCAAG ATCCCTCTCC GGTACAAGAT GGTGGTGACC
361 CCCCGGAGGG CGGCGGTGGC CATAGCCGGC TGCTGGATCC TCTCCTTCGT GGTGGGACTG
421 ACCCCTATGT TTGGCTGGAA CAATCTGAGT GCGGTGGAGC GGGCCTGGGC AGCCAACGGC
481 AGCATGGGGG AGCCCGTGAT CAAGTGCGAG TTCGAGAAGG TCATCAGCAT GGAGTACATG
541 GTCTACTTCA ACTTCTTTGT GTGGGTGCTG CCCCCGCTTC TCCTCATGGT CCTCATCTAC
601 CTGGAGGTCT TCTACCTAAT CCGCAAGCAG CTCAACAAGA AGGTGTCGGC CTCCTCCGGC
661 GACCCGCAGA AGTACTATGG GAAGGAGCTG AAGATCGCCA AGTCGCTGGC CCTCATCCTC
721 TTCCTCTTG CCCTCAGCTG GCTGCCTTTG CACATCCTCA ACTGCATCAC CCTCTTCTGC
781 CCGTCCTGCC ACAAGCCCAG CATCCTTACC TACATTGCCA TCTTCCTCAC GCACGGCAAC
841 TCGGCCATGA ACCCCATTGT CTATGCCTTC CGCATCCAGA AGTTCCGCGT CACCTTCCTT
901 AAGATTTGGA ATGACCATTT CCGCTGCCAG CCTGCACCTC CCATTGACGA GGATCTCCCA
961 GAAGAGAGC CTGATGACTA G
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(2) INFORMATION FOR SEQ ID NO:2433:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2900 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2433:

1	ATGAGTGTCA	GAAGTGTGAA	GGGTGCCTGT	TCTGAATCCC	AGAGCCTCCT	CTCCCTCTGT
61	GAGGCTGGCA	GGTGAGGAAG	GGTTTAACCT	CACTGGAAGG	AATCCCTGGA	GCTAGCGGCT
121	GCTGAAGGCG	TCGAGGTGTG	GGGGCACTTG	GACAGAACAG	TCAGGCAGCC	GGGAGCTCTG
181	CCAGCTTTGG	TGACCTTGGG	CCGGGCTGGG	AGCGCTGCGG	CGGGAGCCGG	AGGACTATGA
241	GCTGCCGCGC	GTTGTCCAGA	GCCCAGCCCA	GCCCTACGCG	CGCGGCCCGG	AGCTCTGTTC
301	CCTGGAACTT	TGGGCACTGC	CTCTGGGACC	CCTGCCGGCC	AGCAGGCAGG	ATGGTGCTTG
361	CCTCGTGCCC	CTTGGTGCCC	GTCTGCTGAT	GTGCCCAGCC	TGTGCCCGCC	ATGCCGCCCT
421	CCATCTCAGC	TTTCCAGGCC	GCCTACATCG	GCATCGAGGT	GCTCATCGCC	CTGGTCTCTG
481	TGCCCGGGAA	CGTGCTGGTG	ATCTGGGCGG	TGAAGGTGAA	CCAGGCGCTG	CGGGATGCCA
541	CCTTCTGCTT				CGTGGGTGCC	
601					CCACACCTGC	
661					CCTGCTGGCA	
721					GGTGGTGACC	
781	CGGCGGTGGC	CATAGCCGGC	TGCTGGATCC	TCTCCTTCGT	GGTGGGACTG	ACCCCTATGT
841	TTGGCTGGAA	CAATCTGAGT	GCGGTGGAGC	GGGCCTGGGC	AGCCAACGGC	AGCATGGGGG
901	AGCCCGTGAT	CAAGTGCGAG	TTCGAGAAGG	TCATCAGCAT	GGAGTACATG	GTCTACTTCA
961	ACTTCTTTGT				CCTCATCTAC	
1021					CTCCTCCGGC	GACCCGCAGA
1081	AGTACTATGG	GAAGGAGCTG	AAGATCGCCA	AGTCGCTGGC	CCTCATCCTC	TTCCTCTTTG

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1141 CCCTCAGCTG GCTGCCTTTG CACATCCTCA ACTGCATCAC CCTCTTCTGC CCGTCCTGCC
1201 ACAAGCCCAG CATCCTTACC TACATTGCCA TCTTCCTCAC GCACGGCAAC TCGGCCATGA
1261 ACCCCATTGT CTATGCCTTC CGCATCCAGA AGTTCCGCGT CACCTTCCTT AAGATTTGGA
1321 ATGACCATTT CCGCTGCCAG CCTGCACCTC CCATTGACGA GGATCTCCCA GAAGAGAGGC
1381 CTGATGACTA GACCCCGCCT TCCGCTCCCA CCAGCCCACA TCCAGTGGGG TCTCAGTCCA
1441 GTCCTCACAT GCCCGCTGTC CCAGGGGTCT CCCTGAGCCT GCCCCAGCTG GGCTGTTGGC
1501 TGGGGGCATG GGGGAGGCTC TGAAGAGATA CCCACAGAGT GTGGTCCCTC CACTAGGAGT
1561 TAACTACCCT ACACCTCTGG GCCCTGCAGG AGGCCTGGGA GGGCAAGGGT CCTACGGAGG
1621 GACCAGGTGT CTAGAGGCAA CAGTGTTCTG AGCCCCCACC TGCCTGACCA TCCCATGAGC
1681 AGTCCAGCGC TTCAGGGCTG GGCAGGTCCT GGGGAGGCTG AGACTGCAGA GGAGCCACCT
1741 GGGCTGGGAG AAGGTGCTTG GGCTTCTGCG GTGAGGCAGG GGAGTCTGCT TGTCTTAGAT
1861 TGGAAGGAGA GAGGTTGAGG ATGCACTGGC CTGTTCTGTA GGAGAGACTG GCCAGAGGCA
1921 GCTAAGGGGC AGGAATCAAG GAGCCTCCGT TCCCACCTCT GAGGACTCTG GACCCCAGGC
1981 CATACCAGGT GCTAGGGTGC CTGCTCTCCT TGCCCTGGGC CAGCCCAGGA TTGTACGTGG
2041 GAGAGGCAGA AAGGGTAGGT TCAGTAATCA TTTCTGATGA TTTGCTGGAG TGCTGGCTCC
2101 ACGCCCTGGG GAGTGAGCTT GGTGCGGTAG GTGCTGGCCT CAAACAGCCA CGAGGTGGTA
2161 GCTCTGAGCC CTCCTTCTTG CCCTGAGCTT TCCGGGGAGG AGCCTGGAGT GTAATTACCT
2221 GTCATCTGGG CCACCAGCTC CACTGGCCCC CGTTGCCGGG CCTGGACTGT CCTAGGTGAC
2281 CCCATCTCTG CTGCTTCTGG GCCTGATGGA GAGGAGAACA CTAGACATGC CAACTCGGGA
2341 GCATTCTGCC TGCCTGGGAA CGGGGTGGAC GAGGGAGTGT CTGTAAGGAC TCAGTGTTGA
2401 CTGTAGGCGC CCCTGGGGTG GGTTTAGCAG GCTGCAGCAG GCAGAGGAGG AGTACCCCCC
2461 TGAGAGCATG TGGGGGAAGG CCTTGCTGTC ATGTGAATCC CTCAATACCC CTAGTATCTG
2521 GCTGGGTTTT CAGGGGCTTT GGAAGCTCTG TTGCAGGTGT CCGGGGGTCT AGGACTTTAG
2581 GGATCTGGGA TCTGGGGAAG GACCAACCCA TGCCCTGCCA AGCCTGGAGC CCCTGTGTTG
2641 GGGGGCAAGG TGGGGGAGCC TGGAGCCCCT GTGTGGGAGG GCGAGGCGGG GGAGCCTGGA
2701 GCCCCTGTGT GGGAGGGCGA GGCGGGGGAT CCTGGAGCCC CTGTGTCGGG GGGCGAGGGA
2761 GGGGAGGTGG CCGTCGGTTG ACCTTCTGAA CATGAGTGTC AACTCCAGGA CTTGCTTCCA
2821 AGCCCTTCCC TCTGTTGGAA ATTGGGTGTG CCCTGGCTCC CAAGGGAGGC CCATGTGACT
2881 AATAAAAAC TGTGAACCCT
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(2) INFORMATION FOR SEQ ID NO:2434:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1942 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2434:
- 1 CGCATTTGTG TTTTAATAAA AGAATCTGGA AGATAAATAG TCTTGAAGAG AGACAAAGGA 61 AGGAAAATTT AAATCCTTAG ATTCAAGCAG AAGAATTCCA TGTGGAAGGT TTGGGTTGTT 181 TCTCGCTGTG TTACCGGGAG CGACAGAGCC GCACGGCCGA GTCGAGTCCC AGCCAGCTAC 241 CATCCCTCTG GAGCTTACCG GCCGGCCTTG GCTTCCCCAG GAATCCCTGG AGCTAGCGGC 301 TGCTGAAGGC GTCGAGGTGT GGGGGCACTT GGACAGAACA GTCAGGCAGC CGGGAGCTCT 361 GCCAGCTTTG GTGACCTTGG GTGCTTGCCT CGTGCCCCTT GGTGCCCGTC TGCTGATGTG 421 CCCAGCCTGT GCCCGCCATG CCGCCCTCCA TCTCAGCTTT CCAGGCCGCC TACATCGGCA 481 TCGAGGTGCT CATCGCCCTG GTCTCTGTGC CCGGGAACGT GCTGGTGATC TGGGCGGTGA 541 AGGTGAACCA GGCGCTGCGG GATGCCACCT TCTGCTTCAT CGTGTCGCTG GCGGTGGCTG 601 ATGTGGCCGT GGGTGCCCTG GTCATCCCCC TCGCCATCCT CATCAACATT GGGCCACAGA 661 CCTACTTCCA CACCTGCCTC ATGGTTGCCT GTCCGGTCCT CATCCTCACC CAGAGCTCCA 721 TCCTGGCCCT GCTGGCAATT GCTGTGGACC GCTACCTCCG GGTCAAGATC CCTCTCCGGT 781 ACAAGATGGT GGTGACCCCC CGGAGGGCGG CGGTGGCCAT AGCCGGCTGC TGGATCCTCT 841 CCTTCGTGGT GGGACTGACC CCTATGTTTG GCTGGAACAA TCTGAGTGCG GTGGAGCGGG 901 CCTGGGCAGC CAACGGCAGC ATGGGGGAGC CCGTGATCAA GTGCGAGTTC GAGAAGGTCA 961 TCAGCATGGA GTACATGGTC TACTTCAACT TCTTTGTGTG GGTGCTGCCC CCGCTTCTCC 1021 TCATGGTCCT CATCTACCTG GAGGTCTTCT ACCTAATCCG CAAGCAGCTC AACAAGAAGG 1081 TGTCGGCCTC CTCCGGCGAC CCGCAGAAGT ACTATGGGAA GGAGCTGAAG ATCGCCAAGT 1141 CGCTGGCCCT CATCCTCTTC CTCTTTGCCC TCAGCTGGCT GCCTTTGCAC ATCCTCAACT 1201 GCATCACCCT CTTCTGCCCG TCCTGCCACA AGCCCAGCAT CCTTACCTAC ATTGCCATCT 1261 TCCTCACGCA CGGCAACTCG GCCATGAACC CCATTGTCTA TGCCTTCCGC ATCCAGAAGT 1321 TCCGCGTCAC CTTCCTTAAG ATTTGGAATG ACCATTTCCG CTGCCAGCCT GCACCTCCCA 1381 TTGACGAGGA TCTCCCAGAA GAGAGGCCTG ATGACTAGAC CCCGCCTTCC GCTCCCACCG

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1441 CCCACATCCA GTGGGGTCTC AGTCCAGTCC TCACATGCCC GCTGTCCCAG GGGTCTCCCT
     1501 GAGCCTGCCC CAGCTGGGCT GTTGGCTGGG GGCATGGGGG AGGCTCTGAA GAGATACCCA
     1561 CAGAGTGTGG TCCCTCCACT AGGAGTTAAC TACCCTACAC CTCTGGGCCC TGCAGGAGGC
     1621 CTGGGAGGGC AAGGGTCCTA CGGAGGGACC AGGTGTCTAG AGGCAACAGT GTTCTGAGCC
     1681 CCCACCTGCC TGACCATCCC ATGAGCAGTC CAGAGCTTCA GGGCTGGGCA GGTCCTGGGG
     1741 AGGCTGAGAC TGCAGAGGAG CCACCTGGGC TGGGAGAAGG TGCTTGGGCT TCTGCGGTGA
     1801 GGCAGGGGAG TCTGCTTGTC TTAGATGTTG GTGGTGCAGC CCCAGGACCA AGCTTAAGGA
     1861 GAGGAGAGCA TCTGCTCTGA GACGGATGGA AGGAGAGGG TTGAGGATGC ACTGGCCTGT
     1921 TCTGTAGGAG AGACTGGCCA GA
(2) INFORMATION FOR SEQ ID NO:2435:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 1687 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2435:
        1 CCCAGCCCCG AGGCTCAGAA GCGGCAGGCG GAGGCGCGGT CCGGGCGCTA TGGCCATGCC
       61 CGGCGGGTCT CACGCGGCTG CCCCTCGCCC GGCGCGCCTT CGGTAGGGGG CGCCCGGGGC
      121 CCAGCTGGCC CGGCCATGCT GCTGGAGACA CAGGACGCGC TGTACGTGGC GCTGGAGCTG
      181 GTCATCGCCG CGCTTTCGGT GGCGGGCAAC GTGCTGGTGT GCGCCGCGGT GGGCACGGCG
      241 AACACTCTGC AGACGCCCAC CAACTACTTC CTGGTGTCCC TGGCTGCGGC CGACGTGGCC
      301 GTGGGGCTCT TCGCCATCCC CTTTGCCATC ACCATCAGCC TGGGCTTCTG CACTGACTTC
      361 TACGGCTGCC TCTTCCTCGC CTGCTTCGTG CTGGTGCTCA CGCAGAGCTC CATCTTCAGC
      421 CTTCTGGCCG TGGCAGTCGA CAGATACCTG GCCATCTGTG TCCCGCTCAG GTATAAAAGT
      481 TTGGTCACGG GGACCCGAGC AAGAGGGGTC ATTGCTGTCC TCTGGGTCCT TGCCTTTGGC
      541 ATCGGATTGA CTCCATTCCT GGGGTGGAAC AGTAAAGACA GTGCCACCAA CAACTGCACA
      601 GAACCCTGGG ATGGAACCAC GAATGAAAGC TGCTGCCTTG TGAAGTGTCT CTTTGAGAAT
      661 GTGGTCCCCA TGAGCTACAT GGTATATTTC AATTTCTTTG GGTGTGTTCT GCCCCCACTG
      721 CTTATAATGC TGGTGATCTA CATTAAGATC TTCCTGGTGG CCTGCAGGCA GCTTCAGCGC
      781 ACTGAGCTGA TGGACCACTC GAGGACCACC CTCCAGCGGG AGATCCATGC AGCCAAGTCA
      841 CTGGCCATGA TTGTGGGGAT TTTTGCCCTG TGCTGGTTAC CTGTGCATGC TGTTAACTGT
      901 GTCACTCTTT TCCAGCCAGC TCAGGGTAAA AATAAGCCCA AGTGGGCAAT GAATATGGCC
      961 ATTCTTCTGT CACATGCCAA TTCAGTTGTC AATCCCATTG TCTATGCTTA CCGGAACCGA
     1021 GACTTCCGCT ACACTTTTCA CAAAATTATC TCCAGGTATC TTCTCTGCCA AGCAGATGTC
     1081 AAGAGTGGGA ATGGTCAGGC TGGGGTACAG CCTGCTCTCG GTGTGGGCCT ATGATCTAGG
     1141 CTCTCGCCTC TTCCAGGAGA AGATACAAAT CCACAAGAAA CAAAGAGGAC ACGGCTGGTT
     1201 TTCATTGTGA AAGATAGCTA CACCTCACAA GGAAATGGAC TGCCTCTCTT GAGCACTTCC
     1261 CTGGAGCTAC CACGTATCTA GCTAATATGT ATGTGTCAGT AGTAGCACCA AGGATTGACA
     1321 AATATATTA TGATCTATTC AGCTGCTTTT ACTGTGTGGA TTATGCCAAC AGCTTGAATG
     1381 GATTCTAACA GACTCTTTTG TTTTTAAAAG TCTGCCTTGT TTATGGTGGA AAATTACTGA
     1441 AACTATTTTA CTGTGAAACA GTGTGAACTA TTATAATGCA AATACTTTTT AACTTAGAGG
     1501 CAATGGAAAA ATAAAAGTTG ACTGTACTAA AAATGTATAC TTGTTGCCAG GAAGGTGACC
     1561 TCAAAAATTA AAAGTATAAT TATTCGGCCG GGCATGGTGG CTCACACCTG TAATTCCAGC
     1621 ACTTTGGGAG GCCAAGGCAG GCGGATCACG AGGTCAGGAG TTCAAAACCA GCCTGTCCAA
    1681 TATAGTG
(2) INFORMATION FOR SEQ ID NO:2436:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 1733 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2436:
       1 GGGCAATTTG TTAGTTATCC GCCGCCACCA AGACGCGGCA CGGCGCCTGG ACCGGAGGGG
      61 CCCCGCGCGG GCGCGAACTT TGGGCTCGGG CGAGTGGGTG GTGCTCCGCC CAGCCCGAGA
     121 CGGGCGGCC CGCGGGCCAA TGGGTGCCGC CTCTTGGCCG CGGGGGGCCC CGACCCGTGG
     181 GTCCCGGCCA CCAGCGCCCC AGCCCCGAGG CTCAGAAGCG GCAGGCGGAG GCGCGGTCCG
     241 GGCGCTATGG CCATGCCCGG CGGGTCTCAC GCGGCTGCCC CTCGCCCGGC GCGCCTTCGG
     301 TAGGGGGCCC CCGGGGCCCA GCTGGCCCGG CCATGCTGCT GGAGACACAG GACGCGCTGT
     361 ACGTGGCGCT GGAGCTGGTC ATCGCCGCGC TTTCGGTGGC GGGCAACGTG CTGGTGTGCG
     421 CCGCGGTGGG CACGGCGAAC ACTCTGCAGA CGCCCACCAA CTACTTCCTG GTGTCCCTGG
     481 CTGCGGCCGA CGTGGCCGTG GGGCTCTTCG CCATCCCCTT TGCCATCACC ATCAGCCTGG
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541 GCTTCTGCAC TGACTTCTAC GGCTGCCTCT TCCTCGCCTG CTTCGTGCTG GTGCTCACGC
 601 AGAGCTCCAT CTTCAGCCTT CTGGCCGTGG CAGTCGACAG ATACCTGGCC ATCTGTGTCC
 661 CGCTCAGGTA TAAAAGTTTG GTCACGGGGA CCCGAGCAAG AGGGGTCATT GCTGTCCTCT
 721 GGGTCCTTGC CTTTGGCATC GGATTGACTC CATTCCTGGG GTGGAACAGT AAAGACAGTG
 781 CCACCAACAA CTGCACAGAA CCCTGGGATG GAACCACGAA TGAAAGCTGC TGCCTTGTGA
 841 AGTGTCTCTT TGAGAATGTG GTCCCCATGA GCTACATGGT ATATTTCAAT TTCTTTGGGT
 901 GTGTTCTGCC CCCACTGCTT ATAATGCTGG TGATCTACAT TAAGATCTTC CTGGTGGCCT
 961 GCAGGCAGCT TCAGCGCACT GAGCTGATGG ACCACTCGAG GACCACCCTC CAGCGGGAGA
1021 TCCATGCAGC CAAGTCACTG GCCATGATTG TGGGGATTTT TGCCCTGTGC TGGTTACCTG
1081 TGCATGCTGT TAACTGTGTC ACTCTTTTCC AGCCAGCTCA GGGTAAAAAT AAGCCCAAGT
1141 GGGCAATGAA TATGGCCATT CTTCTGTCAC ATGCCAATTC AGTTGTCAAT CCCATTGTCT
1201 ATGCTTACCG GAACCGAGAC TTCCGCTACA CTTTTCACAA AATTATCTCC AGGTATCTTC
1261 TCTGCCAAGC AGATGTCAAG AGTGGGAATG GTCAGGCTGG GGTACAGCCT GCTCTCGGTG
1321 TGGGCCTATG ATCTAGGCTC TCGCCTCTTC CAGGAGAAGA TACAAATCCA CAAGAAACAA
1381 AGAGGACACG GCTGGTTTTC ATTGTGAAAG ATAGCTACAC CTCACAAGGA AATGGACTGC
1441 CTCTCTTGAG CACTTCCCTG GAGCTACCAC GTATCTAGCT AATATGTATG TGTCAGTAGT
1501 AGGCTCCAAG GATTGACAAA TATATTTATG ATCTATTCAG CTGCTTTTAC TGTGTGGATT
1561 ATGCCAACAG CTTGAATGGA TTCTAACAGA CTCTTTTGTT TTTAAAAGTC TGCCTTGTTT
1621 ATGGTGGAAA ATTACTGAAA CTATTTTACT GTGAAACAGT GTGAACTATT ATAATGCAAA
1681 TACTTTTAA CTTAGAGGCA ATGGAAAAAT AAAAGTTGAC TGTACTAAAA ATG
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(2) INFORMATION FOR SEQ ID NO:2437:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2470 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2437:
- 1 GAATTCCCAG ATGGGCAGAG GTGGCTGGGC TGGTGACCCT AAGTGTGTCT CCTGCCTTTA 61 TTCTCTCTAG TGGGTTATTC TTTCATGTGG TATCTTGCCT ACAGCATGCT GTGTTTGGAC 121 ACAAACCCCT TTCCTTGGTT TCTCTGACCC AGCTGAGATG GACTGATTCC AAAAGAACTC 181 ACCTATGTAC TGGGGTAGGG GAGGGAGGGT TTTTTGCAGT ATTTAACTAA GGTTCAAAGA 301 TCCTAGAAAT TTCTCTTGGT AACTTCCTTC TCTGAAGCAC AGATAAAGAA AACAATTACA 361 GTAGAAACAT TTATGAGGGA CACATTGGAG GCCGATGAAG CTTTTCAAGT TCCAGCAGTG 421 CAGGGATGTG GGCAGAACTG ACATTGGAAA ATACTAGAAT GATGGAAATT CAGTTGGAGA 481 GGACTGCCCT TTTTAATGTC TGGGGAGTCT GCTCAGGGAG AAATGACAAG TCTGGCGGGG 541 ACAAGTATGG GATTTGGTAA GACTTGGATC AACTTGGGAT ACAGGGTGGG GGTCGGGAGT 601 GGAATCAATG AATGATGCCA GAGCAGATCA ACTAACAAGA GGACCCTGAT GAGCCCCAGG 661 CAGAGGCGTC TCCCTTATGC CCCACTCTGA AGTGTTTGTT AGTAAACACC AGAACGCCAT 721 TGTTGTTACT GCTGAATTTT ATTTTGGGCT GTACATATTT AGATGCTTAA GGTAAAAATG 781 ATAAAGCCCT CAAGCCACTG TGTGGGTTTG GGTCCAAGTG TTCCTTCTTG CTGCCTCTCT 841 AACACGCCTG GTTAAAATAA TCCCTTTGGA TGGTGCTGAG AAGCACCTGA ACCAAGTGGG 901 TCCCCAAATA ACAATGGCGT GCAAGTGTCT GGTTCCCAGA AGTTGGTGAC TAGGTAAGCA 961 GCTTCAGGGA GAGGGGGCTG ATTCCCAGAC AGTCGCCTGT TCCTGCGGGG ATGGGGCTGA 1021 GGCTTGGGGA ATGTGGGCAG GAGGATATGC CATTTGATTC TGTTGCACAC GTTCTTTTCC 1081 CTTCTTTCTG TATGTCTGGT CATTCTGCTA TTCTGTCGTT CCTCACATAG GTTGGACATT 1141 GGCCGGCTGC CAGCATAAGT GCCAGTGTGA TTTTGCTAGG TGTGAGCTGA GAAAGAGAGG 1201 TGGAGGCTAA GCAGGTGTGA TGCTTCTCAG AGGTGCTGAG TTTTTGCCCT TCTGAGCAGG 1261 GAATCTTTGC TTATCCCTTT GACCAAGGAT CTTTGCTGCA AAGGCTGGGT ATCGGCTGTG 1321 CTCAGCAAAG CGTCAACTCG TGCAAGAACT TAGCAGGAAT AGTTCTGGCT AAGGTTAGGA 1381 GGCTGCCACC AAAGTCTCTT TTTTGTTCCT CTGCTTCTCC CGTTTGCCTC CTTATCATGA 1441 GATCTTTTTG CTAAGCTGGC AGAAAGATTG CATAGTCAGT GCTTCCAGCT CTGCTCCCAC 1501 CTGATCCTGC ACTGTCCTCT GGTCCCTGAA TGAATGAACT CTGATACCCA ATCTTGTCTC 1561 GAGCCTTCTC TATGCCACTC ATGGCTCCTC TTCTGCTCTT TCCATCTTTT TGCTGAGAGT 1621 TCTGAGCTCT GTACTTCCTC TTGGCCCATC TCACTTCCTG AAACACCCCT GAAGAGGGTT 1681 GCTTATCTTG ATGGAACTCA AAAAGCCAAA AAGCTGCAGG CAGAGGCGTT GAGGACATCT 1741 GTTTGGGGAA CTAAGAGCAG CAGCACTTTC AGATTCAGTC CATATAGAGC TGTCCTACAG 1801 CATTCTGGAA ACTTGAGGAT GTGCGGTGCA TAAAGGGGCT GGAAGTGACC CACCTGTGAT 1861 GAGCCCTTTC TAAGGAGAAG GGTTTCCAAG AGATCACCCC ACCAGAAAAG GGTAGGAATG 1921 AGCAAGTTGG GAATTTTAGA CTGTCACTGC ACATGGACCT CTGGGAAGAC GTCTGGCGAG 1981 AGCTAGGCCC ACTGGCCCTA CAGACGGATC TTGCTGGCTC ACCTGTCCCT GTGGAGGTTC

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2041 CCCTGGGAAG GCAAGATGCC CAACAACAGC ACTGCTCTGT CATTGGCCAA TGTTACCTAC
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- 2101 ATCACCATGG AAATTTTCAT TGGACTCTGC GCCATAGTGG GCAACGTGCT GGTCATCTGC
- 2161 GTGGTCAAGC TGAACCCCAG CCTGCAGACC ACCACCTTCT ATTTCATTGT CTCTCTAGCC
- 2221 CTGGCTGACA TTGCTGTTGG GGTGCTGGTC ATGCCTTTGG CCATTGTTGT CAGCCTGGGC
- 2281 ATCACAATCC ACTTCTACAG CTGCCTTTTT ATGACTTGCC TACTGCTTAT CTTTACCCAC
- 2341 GCCTCCATCA TGTCCTTGCT GGCCATCGCT GTGGACCGAT ACTTGCGGGT CAAGCTTACC
- 2401 GTCAGGTAGC CTGCGGCGTG GGGTGGGCAG CAATTGAGGC AGCTGGGAAA TGAGGCTACA
- 2461 AAGCCAGAGC

(2) INFORMATION FOR SEQ ID NO:2438:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2438:
- 1 CTGCTGAATT TTATTTTGGA CTGTACATAT TTAGATGCTT AAGGTAAAAA TGATAAAGCC
- 61 CTCAAGCCAC TGTGTGGGTT GGGTCCAAGT GTTCCTTGCT GCTGCCTCTC TAACACGCCT
- 121 GGTTAAAATA ATCCCTTTGG ATGGTGCTGA GAAGCACCTG AACCAAGTGG GTCCCCAAAT
- 181 AACTATGGCG TGCAAGTGTC TGGTTCCCAG AAGTTGGTGA CTAGGTAAGC GACTCAGGGA
- 241 GAGGGGCTGA TTCCCAGACA GTCGCCTGTT CCTGCTGGGA TGGGGCTGAG GCTTGGGGAA
- 301 TGTGGGCAGG AGGATATGCC ATTTGATTCT GTTGCACACG TTCTTTTCCC TTCTTTCTGT
- 361 ATGTCTGGTC ATTCTGCTAT TCTGTCGTTC CTCACATAGG TTGGACATTG GCCGGCTGCC
- 421 AGCATAAGTG CCAGTGTGAT TTTGCTAGGG TGTGAGCTGA GAAAGAGAGG TGGAGGCTAA 481 GCAGGTGTGA TGCTTCTCAG AGGTGCTGAG TTTTTGCCCT TCTGAGCAGG GAATCTTTGC
- 541 TTATCCCTTT GACCAAGGAT CTTTGCTCCA AAGGCTGGGT ATCGGCTGTG CTCAGCAAAG
- 601 CGTCAACTCG TGCAAGAACT TAGCAGGAAT AGTTCTGGCT AAGGTTAGGA GGCTGCCACC
- 661 AAAGTCTCTT TTTTGTTCCT CTGCTTCTCC CGTTTGCCTC CTTATCATGA GATCTTTTTG
- 721 CTAAGCTGGC AGAAAGATTG CATAATCAGT GCTTCCAGCT CCGCTCCCAC CTGATCCTGC
- 781 ACTGTCCTCT GGTCCCTGAA TGAATGAACT CTGATACCCA ATCTTGTCTC GAGCCTTCTC
- 841 TATGCCACTC ATGGCTCCTC TTCTGCTCTT TCCATCTTTT TGCTGAGAGT TACTGAGCTC
- 901 TGTACTTCCT CTTGGCCCAT CTCACTTCCT GAAACACCCC TGAAGAGGGT TGCTTATCTT 961 GATGGAACTC AAAAAGCCAA AAAGCTGCAG GCAGAGGCGT TGAGGACATC TGTTTGGGGA
- 1021 ACTAAGAGCA GCAGCACTTT CAGATTCAGT CCATATAGAG CTGTCCTACA GCATTCTGGA
- 1081 AACTTGAGGA TGTGCGGTGC ATAAAGGGGC TGGAAGTGAC CCACCTGTGA TGAGCCCTTT
- 1141 CTAAGGAGAA GGGTTTCCAA GAGATCACCC CACCAGAAAA GGGTAGGAAT GAGCAAGTTG
- 1201 GGAATTTTAG ACTGTCACTG CACATGGACC TCTGGGAAGA CGTCTGGCGA GAGCTAGGCC
- 1261 CACTGGCCCT ACAGACGGAT CTTGCTGGCT CACCTGTCCC TGTGGAGGTT CCCCTGGGAA
- 1321 GGCAAGATGC CCAACAACAG CACTGCTCTG

(2) INFORMATION FOR SEQ ID NO:2439:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1771 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2439:
- 1 CGAATTCGGG GGACATCTGT TTGGGGAACT AAGAGCAGCA GCACTTTCAG ATTCAGTCCA
- 61 TATAGAGCTG TCCTACAGCA TTCTGGAAAC TTGAGGATGT GCGGTGCATA AACGGGCTGG
- 121 AAGTGACCCA CCTGTGATGA GCCCTTTCTA AGGAGAAGGG TTTCCAAGAG ATCACCCCAC
- 181 CAGAAAAGGG TAGGAATGAG CAAGTTGGGA ATTTTAGACT GTCACTGCAC ATGGACCTCT
- 241 GGGAAGACGT CTGGCGAGAG CTAGGCCCAC TGGCCCTACA GACGGATCTT GCTGGCTCAC
- 301 CTGTCCCTGT GGAGGTTCCC CTGGGAAGGC AAGATGCCCA ACAACAGCAC TGCTCTGTCA
- 361 TTGGCCAATG TTACCTACAT CACCATGGAA ATTTTCATTG GACTCTGCGC CATAGTGGGC
- 421 AACGTGCTGG TCATCTGCGT GGTCAAGCTG AACCCCAGCC TGCAGACCAC CACCTTCTAT
- 481 TTCATTGTCT CTCTAGCCCT GGCTGACATT GCTGTTGGGG TGCTGGTCAT GCCTTTGGCC
- 541 ATTGTTGTCA GCCTGGGCAT CACAATCCAC TTCTACAGCT GCCTTTTTAT GACTTGCCTA
- 601 CTGCTTATCT TTACCCACGC CTCCATCATG TCCTTGCTGG CCATCGCTGT GGACCGATAC
- 661 TTGCGGGTCA AGCTTACCGT CAGATACAAG AGGGTCACCA CTCACAGAAG AATATGGCTG
- 721 GCCCTGGGCC TTTGCTGGCT GGTGTCATTC CTGGTGGGAT TGACCCCCAT GTTTGGCTGG 781 AACATGAAAC TGACCTCAGA GTACCACAGA AATGTCACCT TCCTTTCATG CCAATTTGTT
- 841 TCCGTCATGA GGATGGACTA CATGGTATAC TTCAGCTTCC TCACCTGGAT TTTCATCCCC
- 901 CTGGTTGTCA TGTGCGCCAT CTATCTTGAC ATCTTTTACA TCATTCGGAA CAAACTCAGT

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961 CTGAACTTAT CTAACTCCAA AGAGACAGGT GCATTTATG GACGGGAGTT CAAGACGGCT
1021 AAGTCCTTGT TTCTGGTTCT TTTCTTGTTT GCTCTGCAT GGCTGCCTTT ATCTCTCATC
1081 AACTGCATCA TCTACTTAA TGGTGAGGTA CCACAGCTTG TGCTGTACAT GGGCATCCTG
1141 CTGTCCCATG CCAACTCCAT GATGAACCCT ATCGTCTATG CCTATAAAAT AAAGAAGTTC
1201 AAGGAAACCT ACCTTTTGAT CCTCAAAGCC TGTGTGGTCT GCCATCCCTC TGATTCTTTG
1261 GACACAAGCA TTGAGAAGAA TTCTGAGTAG TTATCCATCA GAGATGACTC TGTCTCATTG
1321 ACCTTCAGAT TCCCCATCAA CAAACACTTG AGGGCCTGTA TGCCTGGGCC AAGGGATTTT
1381 TACATCCTTG ATTACTTCCA CTGAGGTGGG AGCATCTCCA GTGCTCCCCA ATTATATCTC
1441 CCCCACTCA CTACTCTCT CCTCCACTTC ATTTTCCTT TGTCCTTTCT CTCTAATTCA
1501 GTGTTTTGGA GGCCTGACTT GGGGACAACG TATTATTGAT ATTATTGTCT GTTTTCCTTC
1561 TTCCCAATAG AAGAATAAGT CATGGAGCCT GAAGGGTGCC TAGTTGACTT ACTGACAAAA
1621 GGCTCTAGTT GGGCTGAACA TGTGTGTGGT GGTGACTCAT TTCCATGCCA TTGTGGAATT
1681 GAGCAGAGAA CCTGCTCTCG GAGGATGCCT AGGAGATGTT GGGAACAGAA GAAATAAACT
1741 GAGTTTAAGG GGGACTTAAA CTGCTGAATT C
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(2) INFORMATION FOR SEQ ID NO:2440:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2100 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2440:
- 1 GCCGCCGCCG CCAAGATGGC GGACCTGGAG GCGGTGCTGG CCGACGTGAG CTACCTGATG 61 GCCATGGAGA AGAGCAAGGC CACGCCGGCC GCGCGCCCA GCAAGAAGAT ACTGCTGCCC 121 GAGCCCAGCA TCCGCAGTGT CATGCAGAAG TACCTGGAGG ACCGGGGCGA GGTGACCTTT 181 GAGAAGATCT TTTCCCAGAA GCTGGGGTAC CTGCTCTTCC GAGACTTCTG CCTGAACCAC 241 CTGGAGGAGG CCAGGCCCTT GGTGGAATTC TATGAGGAGA TCAAGAAGTA CGAGAAGCTG 301 GAGACGGAGG AGGAGCGTGT GGCCCGCAGC CGGGAGATCT TCGACTCATA CATCATGAAG 361 GAGCTGCTGG CCTGCTCGCA TCCCTTCTCG AAGAGTGCCA CTGAGCATGT CCAAGGCCAC 421 CTGGGGAAGA AGCAGGTGCC TCCGGATCTC TTCCAGCCAT ACATCGAAGA GATTTGTCAA 481 AACCTCCGAG GGGACGTGTT CCAGAAATTC ATTGAGAGCG ATAAGTTCAC ACGGTTTTGC 541 CAGTGGAAGA ATGTGGAGCT CAACATCCAC CTGACCATGA ATGACTTCAG CGTGCATCGC 601 ATCATTGGGC GCGGGGGCTT TGGCGAGGTC TATGGGTGCC GGAAGGCTGA CACAGGCAAG 661 ATGTACGCCA TGAAGTGCCT GGACAAAAAG CGCATCAAGA TGAAGCAGGG GGAGACCCTG 721 GCCCTGAACG AGCGCATCAT GCTCTCGCTC GTCAGCACTG GGGACTGCCC ATTCATTGTC 781 TGCATGTCAT ACGCGTTCCA CACGCCAGAC AAGCTCAGCT TCATCCTGGA CCTCATGAAC 841 GGTGGGGACC TGCACTACCA CCTCTCCCAG CACGGGGTCT TCTCAGAGGC TGACATGCGC 901 TTCTATGCGG CCGAGATCAT CCTGGGCCTG GAGCACATGC ACAACCGCTT CGTGGTCTAC 961 CGGGACCTGA AGCCAGCCAA CATCCTTCTG GACGAGCATG GCCACGTGCG GATCTCGGAC 1021 CTGGGCCTGG CCTGTGACTT CTCCAAGAAG AAGCCCCATG CCAGCGTGGG CACCCACGGG 1081 TACATGGCTC CGGAGGTCCT GCAGAAGGGC GTGGCCTACG ACAGCAGTGC CGACTGGTTC 1141 TCTCTGGGGT GCATGCTCTT CAAGTTGCTG CGGGGGCACA GCCCCTTCCG GCAGCACAAG 1201 ACCAAAGACA AGCATGAGAT CGACCGCATG ACGCTGACGA TGGCCGTGGA GCTGCCCGAC 1261 TCCTTCTCCC CTGAACTACG CTCCCTGCTG GAGGGGTTGC TGCAGAGGGA TGTCAACCGG 1321 AGATTGGGCT GCCTGGGCCG AGGGGCTCAG GAGGTGAAAG AGAGCCCCTT TTTCCGCTCC 1381 CTGGACTGGC AGATGGTCTT CTTGCAGAAG TACCCTCCCC CGCTGATCCC CCCACGAGGG 1441 GAGGTGAACG CGGCCGACGC CTTCGACATT GGCTCCTTCG ATGAGGAGGA CACAAAAGGA 1501 ATCAAGTTAC TGGACAGTGA TCAGGAGCTC TACCGCAACT TCCCCCTCAC CATCTCGGAG 1561 CGGTGGCAGC AGGAGGTGGC AGAGACTGTC TTCGACACCA TCAACGCTGA GACAGACCGG 1621 CTGGAGGCTC GCAAGAAAGC CAAGAACAAG CAGCTGGGCC ATGAGGAAGA CTACGCCCTG 1681 GGCAAGGACT GCATCATGCA TGGCTACATG TCCAAGATGG GCAACCCCTT CCTGACCCAG 1741 TGGCAGCGGC GGTACTTCTA CCTGTTCCCC AACCGCCTCG AGTGGCGGGG CGAGGGCGAG 1801 GCCCCGCAGA GCCTGCTGAC CATGGAGGAG ATCCAGTCGG TGGAGGAGAC GCAGATCAAG 1861 GAGCGCAAGT GCCTGCTCCT CAAGATCCGC GGTGGGAAAC AGTTCATTTT GCAGTGCGAT 1921 AGCGACCCTG AGCTGGTGCA GTGGAAGAAG GAGCTGCGCG ACGCCTACCG CGAGGCCCAG 1981 CAGCTGGTGC AGCGGGTGCC CAAGATGAAG AACAAGCCGC GCTCGCCCGT GGTGGAGCTG
- (2) INFORMATION FOR SEQ ID NO:2441:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7328 base pairs
 - (B) TYPE: nucleic acid

2041 AGCAAGGTGC CGCTGGTCCA GCGCGGCAGT GCCAACGGCC TCTGACCCGC CCACCCGCCT

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2441:
- 1 AAATGATAGA CCGTCAATAA TTTGTTAAAT GCTTTTTAAA ATGAATGCTT TAAGCCGGGT 61 GCAGTGCCTC ACATCTGTAA TCCCAGCACT TTGGAGCCGA GCGGGTGGAT TGTGTGAGGT 121 CAGGAGTTCG AGACCAACCT GGCCAACATG GCAAAACCTC ACTCTCTACC AAAAATACAA 181 AAATTAGCCA GGCATGGTGG CAGGCACCTG TGATCCCAGC TACTCAGGAG GCTGAGACAG 241 GAGAATCGCT TGAACCCGGG AGGCAAGGTT GCAGTGAGCC AAGATTACGC CATTGTACTC 301 CAGCCTGGGT GACAGAGAGA GACTCCGTCT CAAAAAAAA AAAAAAAAA AAAAAAATTAC 361 GCTTCAAACA CATGATCTCT CACCACTGTT GAATTTTCTT TCTATGAGCC CAGGAGGGCC 421 TCTCAGAGAG GAAAGCTCCT AGGTCTTCCT TTCCCTCTGC AAACTCCCTG CCTTGAAGGT 481 TCAGAAGGAC TGTGCGTGCT CGTTGCATCC TTTGCAAGTG TCCAAACCCT GATCCCAGCT 541 GTGCTTAGGG GTTCCTGCAA ACCTTTTCCA GGTGTTAATT ACCTCCCACT TCATTTCCTG 601 TTTACCAACT CAGCTTTTTG TTTTAGTGTG TTTGAATTCC CTGAACTGAC CGTTGTCTGA 661 TCTCCACCTC CCAACTGAAT TAGGGGAGCT GGGCTTCTGG AAACCCAGGT GCCGGGTGTT 721 GCAGAGTGGC TGAAAGCTGG GATGTGGCAG ATCCGTGGCT ACATTCATGC ACACACACAC 781 ACCCACATAC CCACACATGC ACACACACA ACACACCCGC ACTCACACAC TTGGACATGC 841 ATAGACCACA GCTTTCCACA CCCTTCCTAG ACAGGGGTCA CTTGGTATCC TGGAGAGAGT 901 GTGAAGTCCT GGAATGGAAA GAGGGGGGAT TAAGCCCCAC CTCTAGCCAT GGGACTGAGA 961 CAAGTCACCA CCAACCCATC TGCGCCTTGT TTACCTCCTC TGTGAGGCAA GCACAGAGCC 1021 CATGCCTGCC CCCCTGGATG GGAGTGATGT GAAACTTGAA GGGCGGTCAG AGCAAGGGTC 1081 GGGAATGGAA GGCCCTTGGG AAAAAAGGCC CTTTCAACTA GGGGCACAGA GGAGGCCCTG 1141 GGCTGAGAAC TTGACAGCAC CTTGTAATTG GTAAGCCAAG CCCGAAGGGA CTGGAAATAC 1201 TCAGATGTGT CTGTCTCCCT TATTAGGTTC AAAGTCCCTC AAGACCCTGT CTCCATCACA 1261 GTGCTCCAGT CCAGACCCCT CCTCTGAGCT CCAGACCCTG CTGGACCCAA CCAGCCCTAT 1321 GGGGTCGCAT CCCCACCTGC CTGGAATTCT CCAAAGAACC TCCCCTTTAA CAGTTCCAGC 1381 CTTTAACAGT TCCAGTCTAA ACACATGACC TTTCTCCTCT AAATCAGCCC CCCATCTCTG 1441 CCTTTGCAGG AGATGGAAGC CATGACACCT GCCTCGCCCC TGTCCTCACC CCATCCATGT 1501 CCAATCAAGC ACTAGGCATG TCAGGTTTAC CCTCTAAACT CCTCTGGAAT CCAGTCTCTC 1561 AGTCTCCATC ATCCCAGGTC GAAGCTAATG GGCTAACTGG TCCTTGCTTC CACTCTACCC 1621 CCACTGCAGT CCTGACTTCC TGAGCAGCAG CCAGGGCCTA ATCGATATTC ACACCAAGCG 1681 CCAACCTGAC TGAGATATCC TCCTGCACCA TCATCCCTCC ACCCTGTTTA GTTCTGCTCA 1741 CCCTCAGTGT TCTCATCAAT AATCCACTCC CCTCACAGGC GCGTTTGGGA CCCCATGTTC 1801 TATGCTCTCA CAGGACCTTT TGCTTGATTT TTCACTGTAC TTAGGTCAGT TTGCAGTTAT 1861 TAAGTGACTG AGCAATGTCT GGCTTCTCCA GTAGACTGTC AGCTCCTAGC CATTGTATAC 1921 CTAGCACCGC TGTGTGGGAG CACGTGACAA ACGTCCAGTG AGTCAGGGAC TCAGCAGTCT 1981 CCATTTCTCC GCCCTGCTGG AGAATGCGTG TATTTGGCAA TCCCCAGCCC CTGTGCCATC 2041 TAACCATCTT TTCTTCTG TTCAGCCCAG GTGTGGCCTC ACTCACATCC CACTCTGAGT 2101 CCAAATGTTC TCTCCCTGGA AGATATCAAT GTTTCTGTCT GTTCGTGAGG ACTCCGTGCC 2161 CACCACGGCC TCTTTCAGGT GAGTCAAAGG GATTCCTCAG TTCACTAGTT AGGGGAGGTG 2221 GGCAGACACC CTGGAGAACT CCCTGGAAAG CTCAACTCTC ATGCCCCGGA CAACAGTTGA 2281 AGGAACCATG GTGATGTTAA GCCCAAAGAC AAAACCTCTC AGGTGTCCAA GTCCCTGTTG 2341 GAATCTTGGG AGCAGAGGGA ATGTTCTGTG GTCTAGAGGA AGAGGGGCTC AGGGAGGAGA 2401 AGGGCACATT CCTGGTTGTT ATATGTTTCT ATCTATCCCA GATGAACTTG GAAGTGAAGG 2461 GAAGAGATT AAACATTAAA GTAAATACCC AGTGGATCAG ACAGCAATGT GCCAGATTGC 2521 CTTGGAAACA AAATATCTCC AACACATGGC TGACATTTGG TGGGAGATCA GAACACCCTA 2581 AAGAGAGAT TTAAGGGGAG GGGGAGGAGG ACCTGAGCCA GAGTAGAAGC AGAGGATAGG 2641 GAGATCTGTT CTTGGGGACA GCATTTGCAA GAAACAAGGC TGAGGGGTCC ACTCCAACCT 2701 CTCCACCCTG CTGCAGGTGC TGCCTATGAT GAAGATGAGC AGATGGCCAT CTCAGCTGGG 2761 GCCACAGTGC ACTGGACCTA TAGTTTCCAA TTCCGCACTC AGCAGGCATC TTTCTGATGA 2821 TCCGATGGCT TCTCAGAGCC AGGGATGGGC CAGGATCCAT CCCCTTGGCT ACTGTCTTGC 2881 TGAGAAATTT ATAAGCAGCA TCTGGTGCTA TACTTTGGTC TCTAGTGAGT TAGCTCATGA 2941 AAGATGATAG ACTCTCCAAG CCAGGGGTAT GCAGGAAATG GGTTTTCTGT AGCTACAGAA 3001 ATGGGGTTGA GGGTTGGACC AAGGGACTAC CCAGGGGAAG TCTTACCTTC AGAGGACTCT 3061 GGAAAGGAGG CTGCAAGTTT TCATGGGTCA AGAATTCAGA GCCCAGTAGA GACAGCTTAT 3121 CTCTGTTCCA AGATGTCTGG GGCCTTGGTT GGAAGATTCA AAGGCTAGGA AACCAGGAGC 3181 CACCAAAAGC GTAACTGGGG CCAGAGGATC CACTTTCAAG GTGGCAAGTT GGTTCCCCCC 3241 ATGTGGCTGC TTGAGTATCC TCACATGGCG GCTCACATCC TTCCAAGTAA GCAATGCAAA 3301 AGGCCAAGAA AGATGCTGCA AAGATGTTAT GACCTAGCCT CAGAAATCAC ACACCATCCC 3361 TGCCACCATT AGTAAGAAGT CCAGCCCACG TCCAGGAGAA GAGGAAGCAG ATTCCTCCTT 3421 TTGAAATGAA GAATATCAAG TAATTCGGGG GGCATATGAA AGCCACCACA CACCACAGGG 3481 ATCTTTTTAG AGCATACTTC TTATACCATC ACTGTAGTTC CTTAAGACTC AGGGGCAAAG

3601 TECCACCTE COTACTICA GENERACACCA GENTACICA CICATECTAS 3611 AGTECIACAC TECTACICA CATETAGET CACTUTOCA AGACTICAC 3661 AGTECIACAC TECTACTAGA GENETICACA CACTUTOCA 3661 AGTECIANAM GENETITATA COTTAGARCA CAGCTUTACA 3781 CACCAGCACA COTACACACA 3781 CACCAGCACAC TECTATATA COTTAGARCA CAGCTUTACA 3781 CACCAGCACAC TECTATATA COTTAGARCA 3781 CACCAGCACAC TECTATATA COTTAGARCA 3781 CACCAGCACAC TECTACAGA COTACACACACACACACACACACACACACACACACACACA								
3661 ATTCTCACCTC TCCTGCTCAC ACTGTTCCC CACTGTGCCC CCTTCTCTCC 3621 CGGTCAAAAT GCTTCTTAC CTTCATAGAC CAGCTTCTACA GTCACTGTCCC 3721 CGGTCAAAAT GCTTCTATC CTTCAAGAC CAGCTCTACA GTCACTGTCCC 3721 CGGTCAAAAC GCTTCTATC 3731 CACCACCCCCT 3841 CACCCTCTGG GCCACAGTG TCAGGAGTCA GCACCCCCT 3841 CACCCTCTG GCCACAGTG TCAGGAGTCACCCCCAC 3841 CACCCTCTCAGC CACCACCCCCAC TCGGCTCCACCCACCCCCACCCCCCCCCT 4841 CACCCTCTCACCCCACCCCACCCCCACCCCCCCCCCCC	35	41	CCTCACTTCC	TTAGCACCCA	GTGAAGACCA	CGCTTACTCC	CTCACTCAAC	CTCTTGCTAC
3731 CGGTCANAM GCTTCTTATC CTTCARGAC CAGCTCTACA GTCCCCCCA GGGCACGCCC TCTCCARGCC CTGTCTCCARGCC CTGTGTCCCAGCCC CTGTGTCCCCCAGCCCCTTCCCAGCCCCCT GTGTCTCTT 3911 TGTGTTCTTG CACTCAGGGC CAGCCCCCGT GCGCCCCGC GGGCCCGCCCCGC	36	01	TTCCCACCTC	TCCTGTCCAA	CATCTAGTGT	CACTTTCCAG	AACATACCAA	CAGCTTCCCC
3811 CACCAGCCC CTCTCCAAGT CTGTGTCCCA CAACCCCCT GCTCCTCCA GGGCACCTTC 3810 TGTGTTCTTG 3810 TGTGTTCTTG CACTCAGGG AGAGCTAGC ACAGACCACA CGCTCAAAA ACATTAAAG 3810 GATRAGAGCA TCATTTCTG GGTCCCCAG TCTGGCTCCA GGATGCCAGC GCTCAAAA ACATTAAAG 3810 GATRAGAGCA TCATTTCTG GGTCCCCCAG TCTGGCTCCA GGATGCCAGC CACCTCCTC 4021 TAGAAGCAA CGGACTTTC CTGCGAAAT CCAGAGGTGA TGGTCAGTAT TCTCTCCCGT 4081 GACCTGTGAT TGCTTCACCC ACAGCCAGG GCACTGGGAA ATAGCCCAAT GAGTCCTGCC 4201 TCTGGGTTGT GCTTTGGACT TTCCATCGAGC CTGACTATCA GTGGACCATC CAGAAAGAGA 4211 CACACCCCAG ATAGAACCTA TATCAAGCGA TATCAGCAGTA GAGCCATCA 4221 CACACCCAG AAAAAGAA ATACAAACCA ATACCAGCAC ACACCTCACCAA 4321 AGAAGCCAAC ATAGAACCTA TACCAACCA GACAATTCC CACACACCAC 4231 AGAAGCCAAC ATAGAACCTA GAGCCAATCC CCTCCCTGAA GAGCAATAC CACACCACAC	36	61	AGTTCTGTGC	CTCTGCTCAG	GCTGTTCCCC	CTGCCTGGTC	CACTTGTCCT	CCTTCTTGTC
3901 TGTGTTCTTG GCACAGGTG GGACCAGGCAG GGCGGGGG GTTCTTCTT 3901 TGTGTTCTTG GACTCAGGGG AGAGCAGAG CAGAGCAGA CGCCAAAAA ACATTTAAAA 3961 GATAGAAGCA TGATTTGTG GGTCCCCCAG TCTGGCTCCA GGATGCCAC CAGCTGCTCC 4021 TAGAAGCAAA CGGACTTTC CTGCGGAAAC CCAGAGGTGA TGATCAGTAA TCTCTCCGGT 4081 GACTGTAGT TCAGCTCTTC CTCCATGAGG CTGGATATCA GTGGACCTTC CAGAAAAGAG 4141 CCCTTTTCCT TCTCTCACCC ACAGCACAGG GCACTGGGAA ACTGCCCAT GAGTCTGCC 4120 TCTGGGTTG GTTTGAGTTT TCTGGATGTG TCTGCCATC ACTGTTCAAC TGAATAGTGT 4261 CAACAGCCAT GAAAAAAGAA ATGCAAAGCG ATTCAGGATG AGACCAACAC CTGATCACA 4321 AGAAGGCACA TAACAAGACC AGACCACACG CTCTCTCAGA 4321 AGAAGGCACA TAACAAGACC AGACCACACC CTCTCTCAGA 4321 AGAAGCACAA AAACAAGAA ATGCAAAACG ATTCAGAGCAT GAAAAAAGA 4321 AGAAGCCAAA AAACAAGAA ATGCAAAACG ATCAGCATTGC CCAGAGCACC ACAGCTAGGA 4361 GTGGAACTCA TGAAGAGCCA AGCCCATGC CTCTGCTGAA 4411 ACAAGTCTAG AAAGGTGCCT GCCCTATGGT CTGTGAGTT TGCAGTTTAC CACTCAATAA 4501 GCCAGTGGGT TAAAGAACTCA AGCCCAACA AGCGTGGTGT TGGAGTTTAC CACTCAATAAC 4511 ACAAGTCAGA AAATCAAAATT ACTAATGTTT ATTCAGCCTA GTGCATCTC TCCACCCC 4501 CCTGGCCATC TGTATCTGCT TCAGAGCAGT TAAGTAACT 4521 TCAAGCACATGT TCAGAGCAGCT TAAGACCAGT AGGACTATCT GCCCACCCC 4501 CCTGGCCATC TGTATCCTCC AAACACTTCA GTGCTTTGCT 4681 ACAGGTGCAC CAACAGCGTTT CAGACCAGT AGGACTATCT GCCCACCCC 4501 CCTGGCCACC CAACAGCGCTT AAGACCAGA TACATCAGCA ACCCCCTTC 4501 CCTGGCCACC CAACAGCGCTT AGACCAGCA TACATCAGCA ACCCCCTTC 4501 CAAGCCAGAC TGGAACTCTC AGACCAGTA TAGATCACCA ACCCCCTTC 4501 CACCCACCC CAACAGGCTT AGACCAGT TAGATCACCA ACCCCCTTC GCAGGGGCCCC 5501 GTCATAGAG AAACTGCCCAC TAGACCAGAC TCTAAGAGGA CACCCCTTT AAACACAAGA 481 CCCCCACCC CAACGGCCTT TGAAGAGCG AAACTGCCCA CACCACCCCT 5501 AAACACTTGAG ATTCTTCAGC AGGACATGT AACCCCACC TCAAGAGAG 5501 ACCCCACACC CAACAGGCTTA AACCCCACC TCAAGAGAG CAACACCCCT 5501 AAACACTTGAG ATTCTTCCT AGAAGACCGG GAACATCCCCCT TCACCCCC 5501 AACCACTGGG CAACACCTAG CACCACCACAC 5501 ACCCCACACC CAACAGCACT CTGTGTGCT CAACACCACCCC 5501 AACCACTGGG CAACACCTAG AAACCACCCCT CTCTTCTGGG CAACACACC 5501 AACCACTGGG CAACACCTAG AACCCCCTC TCTTCTCCGG CAACACACC 5501 ACCCCACAGAGA TCCCCCTTT TGCCAACAC TCCACC	37	21	CGGTCAAAA1	GCTTCTTATC	CTTCAAGACC	CAGCTCTAGA	GTCACCTCCA	ACCCCTTACC
3916 IGATGAGAGA TIGATTEGE GETCCCCAGE TOTGGCTCAGE GEATGCAGEA CACTGCTCC 4021 TAGAAGCAA CGGACTTTC CTGGGAAATC CCAGAGGTGA TGATCAGTAA TCTCTCCCGT 4021 TAGAAGCAA CGGACTTTC CTCGAGAACC CCAGAGGTGA TGATCAGTAA TCTCTCCCGT 4021 GACTGGTAGT TCAGCTCTTC CTCCATGAGC CTGACTATCA GTGGACCTTC CAGAAAGAGC 4021 TCTGGGTTGT CTCTCTCACCC ACAGCACAGG GCACTGGGAA AATGCCCAAT GAGTCCTCCC 4021 TCTGGGTTGT GCTTTGACT TTTCAGTTGT TCTCCACCA CAGACCAGA AATGCCCAAT TGAGAGCTAC 4021 TCTGGGTTGT GCTTTGACT TTTCAGTTGT TCTCCACCA CAGACCACAG AAGACCACA AAGACCACA TAGAAGGCAA TAGAAGAGCAA TAGAAGAGCAA TAGAAGAGCAA TAGAAGAGCAA TAGAAGAGCAA TAGAAGAGCAA ACAATTTGC 4221 AGAAGCCAAC ATAGAAGCTC AGAGACACA ACCAATTTGC CCAAGACCA CAGCTAGGA 4321 AGAAGCCAAC TAGAAGAGC AGAGCACAC ACAGCTAGGA 4321 AGAAGCCAAC TAGAAGAGC ACCCCATCG CTCTGCTGAA GGTAGAGAT AATACAGCA 4321 AGAAGCCAAC TAGAAGAGC TCCACACA ACGCTGGTGT TGGAGTTTAC CACTGATAAT 4421 ACAGTCTGA CTCATGAGAC TCAGAACAC CTGGAGAGGTT TGCAATGCG TGGGACTTA 4421 TAACTAAGGC ACCACTACA ACGCTGTGTT TAGTGACCTT CCCCAACGGT GTGGACATTT 4421 TAACTAAGGC ACCAGGATG TGAACCACAT AGGACTACT GCCAACGCC ACAGCCTTA 4441 TAACTAAGGC AGCCAGATG TGAACCACAT AGGACTACT GCCAACGCC ACAGCCTTA 4441 TAACTAAGGC AGCCAGAGTG TGAACCACAT AGGACTACT GCCAACGCC ACAGCCTTA 4441 TAACTAAGGC AGCACAGGATT AGAACCACT AGGACTACC CCCAACCGC 4480 CCCCACCCC TGTTACCCTC AATCACTTCA ACCACTCT GCATAGAAGG TACCCACCC 4801 CACCGACACAC AGGACTGCC AGGACACCAC AAGCACTACCTTTG GCATAGAAGCC 4801 CACCGCACA CAGACCTTCC AGCACGCCT AGGACACCAC ACCCCTTGA GAGGCCCAC ACCCCTCC 4921 CAACCCACC AGACCTTCC AGCACGCCT TCACGGAACC TCCCATCGGAC CACGCCTTT 4921 CAACCCACC ACACCCTTCC AGCACACTCC TCTCTCTTTATATATAATTAA 4931 CTCACCCACC ACAGCCTTTA ACACCCTC TCTCTCTTTT AATAAATTAA 4931 CTCACCCACC ACAGCCTTTA ACACCCTC TCTCTCTTCTT AATACCCCTC TCTCTCTTCTTT AATACCTTCT 5341 GTCCTCCCTC TGTAACCCGC TCGAGAGCCCA AACACCCTTTC CCTCTCTTTAACCCACC ACCACACCTCT 5341 GTCCTCCTCT TGTACCCGCT GAGGGCTAA ACACCCTTTCCTC TCTCTCTTCT GAGCCCCAC 5441 GCCCAACGAG GAGCACAC ACACCCTTCT TCTCACGGAC AACACCCCT TCTCTCTCTCT GCCAAACACC 5541 ACCCAGAGGA GAGCACACC ACACCCCTCT TCTCACGGC CACCCCTCTC TCTCTCTCTC TCTCTCTCT GCCAAACAC	37	81	CACCAGCCCC	CTCTCCAAGT	CTGTGTCCCA	CAACCCCCT	GCTCCCTCCA	GGGCACCCTC
3961 GATAGARGCA TEGATTTEG GGTCCCCCAG TCTGCCTCA GGATGCCAGC CACCTCCCC 4021 TAGAGCAAA CGACTTTC CTCGGAAATC CCAGAGGTAG TGATCAGTAA TCTCTCCCGT 4081 GACTCGTAGT TCACCTCTC CTCGACAACCAGG CCAGAGGAGA TAGCAGTAG AGACCCCAAC 4141 CCCTTTTCCT TCTCTCACC ACAGCACAGG GCACTGGGAA AATGCCCAAC GAGTCCTCCC 4201 TCTGGGTGT GCTTTGGACT TTCAGTGTG TCTCGCAGT CACTCTCAAC 4201 TCTGGGTGT GCTTTGGACT TTCAGTGTG TCTGCGATC ACTCTTCAAC TTGAATGTT 4261 CAACAGCCAT GAAAAAAGAA ATGCAAACGG ATTCAGGATG AGACCAATCAC CCAGACCACA CAGCTAGGA 4321 AGAAGGCAAC ATAGCAAGCA AGCACTCCC CCTCTGCTGAA 4321 AGAAGGCAAC ATAGCAGCTGC CCCTATGGT CTGTGAGTT TGCCTAAGAA TCAAAAGAGGA 4341 ACAAGTCTAG AAAGGTGCCT GCCCTATGGT CTGTGAGTCT TGCCTAAGAA TCAAAAGAGGA 4341 ACAAGTCTAG AAAGGTGCCT GCCCTATGGT CTGTGAGTCT TGCGCTTAACAA TCAAAAGAGGA 4351 GCCAGTGGGT TAAAGATGAA TCAAAATT ACTAATGTTT ATTCAGCCTA TGGAGTTTC ACCTCAACAA 4461 ACAGGTCAGA AATTCAACT TCAAGGACAC CTGGAGGGTG TGGGCTTTAT CACTCCATACA 4461 ACAGGTCAGA TATCTGAGT TCAAGACCCAT CGGAGAGGT GTGGTTTTAA CTGCCATCTT 4621 TCACCAACC CACCAGGCTT TCAAGACCCAT AGGACTACT GCCCTACCACAC 4441 TAAGTAAGGC AGCCAGGATT TCAACCTCAC AGGACTTCT GCCTACACACA ACCCCCCC 4441 TAAGTAAGGC AGCCAGGATT TCAACCTCAC AGGACTTCT GCCTACACACA CACCCCCCC 4441 TAAGTAAGGC AGCCAGGATT TCAACCTCAC AGCACTGTC GAAACAACCT 4441 TAAGTAAGGC AGCCAGGATT TCAACCTCAC AGCACTGTCT GACACCACC CACACGCCTT AAGTACCTCAC AGCACTGTC AACACCTCAC AGCACTGTC AACACCCACC CACAGGCCTT AACACCACAC ACCCCCCCC 4441 CCCCACCCCAC ACAGGCCTT AACACCACA AACACACCTT ACACCCACC 4441 CACCCACC CACAGGCCTT GACAGACAC AACACACCTT TTCAACGAGAG TCCAACGGCCC 5441 CCCCAAGGGAA ATTCTTACTG CTGTTGATGG ATACTGACCA ACCACCCTTT AACACCCACC 5441 CCCCAAGGGAA ATTCTTCACT TCAACGAGAACAACACCTT ACACCCACC 5441 CCCCAAGGGAA AGCACCTT AACACCCTCT CTCCTCTGG ACCACTTTT 5441 CCCCACAGGGAA AGCACCTTT TAACCCCCCC CCCCTTCTTCTAAC 5441 CCCCAAGGGAA AGCACCTTT TAACCCCCCC CCCCTTCTTCTAAC 5441 CCCCAAGGGAA TCACCATCACACT TTCAACGGAC CTCTTCTTCT CACCCCCCC 5441 CCCCAAGGGAA TCACCATCACACT TTCAACGGAC CTCTTCTTCT CACCCCCCC 5441 CCCCAAGGGAA TCCCCTCTACA AGCCCATCT CTCAACACACC TCTCTCTCTC GACCACACAC 5441 CCCCAAGGGAA TCCCCTCCAC AGCACACTT TC	38	41	CACCCTCTGG	GCCACAGTTG	TCAGGAGTCA	GGCAGGGCAG	GGGCCGGGTG	GTGTCTTCTT
4021 TAGAAGCAAA CGGACTTTC CTGGGAAATC CCAGAGGTGA TGATCAGTAA TCCTCCCGT 4021 TAGTGGTGTG TCAGCCTTTC CTCCATGAGG CGGACTATGA CTGGACCTTC CAGAAAGAGG 4141 CCCTTTTCCT TCTCTCACC ACAGCACAG GCACTGGGAA AATGCCCAAT GAGTCCTGCC 4201 TCTGGGTTG CCTTTGGACT TTTCAGTGTG TCTGCATCT ACACTTCAAC TTGAATGTG 4211 ACAAGGCCAT GAAAAAAGAA ATCCAAACG ATTCAGCAGTA AGAGCATAC CCTACTCCAG 4221 AGAAGGCAAC ATAGAAGCT AGAGAGACA ACAGCTAGGA 4321 AGAAGGCCAAC ATAGAAGCT AGAGAGACA ACAGCTAGGA 4321 AGAAGGCCAAC ATAGAAGCT CAGAGAGACA ACAGCTAGGA 4321 AGAAGGCAAC ATAGAAGCT AGAGAGACA ACAGCTAGGA 4441 ACAAGTCTAG AAAGGTGCA GCCCTATGGT CTCTGCTAGA GTGAAGAGA ATGAAAGGA 4441 ACAAGTCTAG AAAGGTGCA GCCCTATGGT CTGTGAAGTT TGCACTTGGA 4501 GCCAATGGGT TAAAAGATGAG GTCACAACA ACGGTGGGTT TGCACTGCG TGGGACTT 4521 TCACACTTCT CTCTGATCCC TATGACAACC CTGAGAGGTA GTGCATTCAG TGCACTGCG 4521 TGCACATTCT CTCTGATCCC TATGACAACC CTGAGAGGTA GTGCATTCAG ACACGCTTT 4621 TCACCCACC CAGACTGCC AGACACAC CTGGAGAGTA TCCCCACCCT 4621 CAGACTGCA CAGACTTCC AGACACAC CTGCTTTGG CATAGAAGAG TCACCACCAC 4621 CAGACTGCA CAGACTTCC AGACACCAC CAGCCACAC 4621 CAGACCAGC ACACGCCTT AGACACCTC GTGCATAGAAGG TCACCACCAC 4621 CAAGCCAGC TGAACCCTC AGACGACTA TAGTCATTCA GCTCCCACCCC 4621 CAAGCCAGC TGAACCCTC AGACGACTA TCTCTTTT AATAAATTAA 4681 ACACACTCC ACAGCCTT AGACACCTC ACCCCTTCA 4681 CTCCACCACC ACACGCCTT GAAGAGCCTA AACTCCCTTG GAGGGCCTG 4681 CTCCACCACC ACACGCCTT GAAGAGCCTA AACTCCATTCA GAGGACCTA 4681 CTCCACCACC ACACGCCTT GAAGAGCCTA ACTCCCTTCC GAGGGCCTG 5610 AACACTTGGA GTTCTTAGCTGC AGAGAGCTCA AGACTCCATC GAGGAGACTA 5610 ATCCACCACC ACACGGCTTT GTTCTGCAC 5611 CTCCAGATCA AGACACTCA TCCCTTCCA ACACGCTT 5611 CTCCAGATCA AGACACTTGA CTGAGAGCCTA ACACCTTTCT 5611 CTCCAGATCA AGACACTCA CTGAGAGGCCTA ACACCTTTTC 5611 CTCCAGATCA AGACACTCA CTGAGAGGCCTA ACACCTTTTC 5611 CTCCAGATCA AGACACTTAG CTCTTCCACACAC ACACCCTACCAC 5611 ACCCTAGCTG AGACACTCA CTGAGGCCCAC CTTCACCAGAGCCT 5611 ACCCTACTGC CTCTCTGCC CTGAGCCCACAC 5611 ACCCTACTGC CTCTCTGCC CTGAGCCCACAC 5611 ACCCTACTCC CTCTCTGCC CTCCACCACAC 5611 ACCCTACTCC CTCTCTCAC CTCCCACCACAC 5611 ACCCACACT CCCCCACACAC CTCCCCCCCC 5611 ACCCACACT CCCCCA	39	01	TGTGTTCTTG	CACTCAGGGC	AGAGCTCAGC	ACAGAGCAGA	CGCTCAAAAA	ACATTTAAAG
4081 GACTGETAGT TCAGETCTTC CTCATAGGC CEGACTAGGA ARGCACCTAG CAGAAGAGC 4111 CCCTTTTCCT TCTCTCACCC CAGACGAGG GCACTGGGAA ARGCACCAT GAGTACTGGC 4201 TCTGGGTTGT GCTTTGGACT TTTCAGTGT TCTCGCATC ACTCTCAC TTGAACTGTGC 4201 CAGAGGCCAT GAAAAAGAA TTCAGAGCT ATCAGGATG AGAGCAATTAC CCTACTCCAA 4321 AGAAGGCAAC ATAGAAGCTC AGAGGAGACAA AGCAATTAC CCTACTCCAA 4321 AGAAGGCAAC ATAGAAGCTC AGAGGAGACAA AGCAATTAGC CCAGAGCACA ACAGGTAGAG 4381 GTGGAACTCA TGGGTGTCCA AGCCCCATGC CTCTGCTGAAG GGTAGAGATG AATACAGCA 4414 ACAGATCTAG AAAGGTCCCT GCCCCATGC CTCTGCTGCAT TGCCTAAGAA TGAAAAGAGGA 4501 GCCAGTGGGT TAAAGATGA GTCACCAACA ACGGTGGTT TGCCTAAGAA TGAAAAGAGGA 4501 GCCAGTGGGT TAAAGATGA GTCACCAACA ACGGTGGTT TGCCTAAGAA TGAAAAGAGGA 4501 ACGGGTCAA AATGTAAATT ACTAATGTTT ATTGAGCCTA GTGGATTTAC CTCCACTGTT 4621 TCCACCATGT CTCTGATCCC TATGACCAAC CCGAGAGGT GTGGTTTTAA CTCCCATGTT 4621 ACAGGTGAGG TCATTGTGGT TCAAGGAGGT TAAGTAACTT CCCCACCCCT 4801 CCTGGCCATC TGTATCCTCC AATCACTTCA GTGCTTTACT GGCTGCAAG TCCCCACCC 4801 CCTGGCCATC TGTATCCTCC AGCACTGTCA GTGCTTTTGT GGCTGCAAGA TCCCCACCC 4801 CCTGGCCATC TGTATCCTCC AGGAGGAGA TACATGAGCA ACTCCCTTG GAGGGCCCG 4801 CCTGACCACC CAGAGGCTTT AGGAGGACTA TTTTTCTCTTTT AATAAATTA 4811 CAAGCCAGAC TGGAATCTC AGGAGAGAGA AAACTGGCA ACTCCCTTG GAGGGCCCG 5041 GTGATAAGA AGAACTG AACCTCCCA TCAGGGAGAC TCAAGGAGG TCAAGGGGT 5041 GTGATAAGA AGAACTG AACCTCCCA TCAGGGAGAC TCAAGGAGG TCAAGGGGT 5041 AACCTTGAG ATTGTTAGG CTGTGTGGTG ATACTGACAAC ACCCCCTTCCT 5281 CCCAAGGGG TCAGGTGGA AGCCCCCGTTT AGAACCAGG ATCAGGGGG CCACGGACC 5281 CCCAAGGGG TCAGGGTGCA CTGGAGCGC GCACCACCC TCTCTCTCGG ACCACTTCT 5281 CCCCAAGGG GTCAGGTGCA CTGGAGCGC GCACCACAC ACCCCCTTCCT TGGGCCCT 5281 CCCCAAGGG GTCAGGCTCA CTGGACCAC ACCCCCTTCCT CTGGGTCCTC 5281 CCCCAAGGG GTCAGGCTGC CTGGTTGTCT TAACCCCTT CTCTCTCGG ACCACTTCT 5281 CCCCAAGTG GATGCCTGC AGGGGCACCA CCCCCTTCCT CTGGGTCCT 5281 CCCCAGGGG GTCAGGCCC CTGGTTGCCT CTTAACGGG CCCTTCCTCT CGGGTCCT 5281 AGCCGCCCG GTGGTGAA TCCCCTCT CTTAACGGG CCCTTCCTCT CGGGTCCT 5281 ACCCAGGGG GTGAGGATCA CCCACTACCACT CTCACCCC CCCCTTCCT CTGGGTCCT 5281 ACCCAGGGG TCGCCTCGAA TCCCCTCC CCCACCCC 601 AGGC	39	61	GATAGAAGCA	TTGATTTGTG	GGTCCCCCAG	TCTGGCTCCA	GGATGCCAGC	CAGCTGCTCC
4111 CCCTTTTCCT TCTCTCACC ACAGCACAG GCACTGGAA ANTGCCAAT GAGTCCTGCC 4201 TCTGGGTTGT GCTTTGGACT TTTCAGTGTGT CTCCACACTCACC TCTCACCTACAC 4211 AGAAGCCAT GAAAAAGAA ATGCAAAGCA ATCAGATTGC CCAAGACCCA 4221 AGAAGCCAAC ATAGAAGCTC AGACGAATCA AGCACTTAGC CCTCAGCTCAA GCACACACACA 4321 AGAAGCCAAC ATGCAAGCCCACACA AGCCCCTAGA GGTACAGACACA ACAGCTAGGA 4441 ACAAGTCTAG AAAGGTGCCT GCCCTATGGT CTGTGAGCTT TGCCTAAGAA TAGAAAGAGGA 4441 ACAAGTCTAG AAAGGTGCCT GCCCTATGGT CTGTGAGCAT TGCATACACA 4501 GCCACTGGGT TAAAAGATGAG GTCACCAACA ACGGTGGTGT TGGAGTTTAC CACTGATAAT 4501 AGCGTGGGT TAAAAGATGAG GTCACCAACA ACGGTGGTGT TGGAGTTTAC CACTGATAAT 4501 AGCGACATTGT CTCTGATCCC TATGACAACA CCGTGGTGT GTGCAGTGCC TGGGCATTT 4621 TGCACATTGT CTCTGATCCC TATGACACC CTGACAGCTA GTGCAGTGC TGGGCCATT 4621 TGCACATTGT CTCTGATCCC TATGACACAC CTGACAGCAT GTGCAGTGCA	40	21	TAGAAGCAAA	CGGACTTTTC	CTGGGAAATC	CCAGAGGTGA	TGATCAGTAA	TCTCTCCCGT
4201 TCTGGGTTEG GCTTTGGACT TTTCAGTGTG TCTCGCATC ACTCTCAAC TTGAATGTC ACAGCACTAC ACACCACTACACTA	40	81	GACTCGTAGT	' TCAGCTCTTC	CTCCATGAGC	CTGACTATCA	GTGGACCTTC	CAGAAAGAGC
4261 CARAGGCACA GARARARGRA ATECRARGC ATTCAGGATG AGAGCARTAC CCTACTCCA 4381 GTGGAACTCA TAGGATCCA AGACCATTGC CTGTGAGACCAC AGACCAGGA 4381 GTGGAACTCA TGGCTGTCCA AGCCCATGC CTGTGCTGAGA TAGACAGCAC ACAGCTAGGA 441 ACAAGTCTAG AAAGGTGCT GCCCTATGGT CTGTGAGACTT TCCCTAAGAA TGAAAGAGGGA 441 ACAAGTCTAG AAAGGTGCT GCCCTATGGT CTGTGAGACT CTGCAGACAC AGAGTAGAA 4501 GCCAGTGGGT TAAAGAGTAGG GTCACCAACA AGGGTGGTGT TGGAGTTCAC CTGATAAT 4561 AAGGGTGCAA AAATGTAAATT ACTAATGTTT ATTGAGCCTA GTGCAGTCC TGGGGCATTT 4621 TGCACATTGT CTCTGATCCC TATGACAACC CTGAGAGGTA GTGCTTTAC CTCCAGGCTT 4681 ACAGGTGAGG TCATTGTGGT TCAAGGACGT TAAGTAACTT CCCCAGCGCT ACAGCGCTTA 4741 TAAGTAAGGC AGCCAGGATG TGAACCCAGT AGGACTATCT GCCCAGAAGA TCCCCACCCC 4801 CCTCGCCATC TGATACCTCC AGCAAGACAG AAACTAGGCA GATGGGCTG 4921 CAAGCCAGAC TGAACCTCC AGGACAGACAG AAACTAGGCA GATGGCTGC 4921 CAAGCCAGAC TGAACTCC AGGACGCTCA AAGTTGACACA TTTTCTCTTTT AAATAAAATTAA 4861 CACGATGCCA ACACCGGCTT GAGAAGCTCA AAGTTGACACA ACTCCCTTTG GAGGGCCCG 5041 GTTGATAAGG AAGGAACCTG AAACTCCCACC TCACCGCACC 5041 GTTGATAAGG AAGGAACCTG AAGTCCCACCA TCACGGAGG TTCAAGGAGG TCAAGGGCCC 5041 GTTGATAAGG AAGGAACCTG AAGTCCCACCA TCACCGCACC ACACCCCCCC 5041 GTTGATAAGG AAGGAACTGAG GAACCAGGAC TTCAAGGAGG TCAAGGGCCC 5041 GTCGAGAGGA AGACATGAG AACTCCCACCT 5041 GTCGAGAGGA AGACATGAG AACCACACAG ATCACCTTCG GAGGGCCCG 5041 GTCGAGAGGA AGACATGAG GCCCCCGTTT AGAACCAAGG ATCAAGAGGG TCAAGGGCC 5041 GTCGAGAGGA TTGCTAGGAG CTCTGACACACACACACACACACACACACACACACACACA	41	41	CCCTTTTCCT	TCTCTCACCC	ACAGCACAGG	GCACTGGGAA	AATGCCCAAT	GAGTCCTGCC
4321 AGAAGGCAAC ATAGAAGCTC AGAGGCATCA AGCATTTGC CCÁAGACCAC ACAGCTAGA 4381 GTGGAACTCA TGGCTGTCCA AGCCCCATGC CTCTGCTGAA GGTAGAGATG 4441 ACAAGTCTAG AAAGGTGCCT GCCCTATGGT CTGTGAGTCT TGCCTAAGAA TGAAAGAGGA 4501 GCCAGTGGGT TAAAGATGAA GTCAACCAACA ACGGTGGTGT TGGAGTTTAC 4501 AGAGGTGCAA AAAGGTAGCT ACTAGACACA 4501 AGAGGTGCAA AAAGTGAAATT ACTAATGGTT ATTGAGCCTA GTGCAGTGCC TGGGCATTT 4621 TGCACATTGT CTCTGATCCC TATGACACC CTGAGAGGTA GTGCGTGCCG TGGGCATT 4621 ACAGGTGAGA AAGTGAAATT ACTAATGGTT ATTGAGCCTA GTGCAGTGCA	42	01	TCTGGGTTGT	' GCTTTGGACT	TTTCAGTGTG	TCTCGCATCC	ACTCTTCAAC	TTGAATGTTG
4341 GTGGAACTCA TGGCTGTCCA AGCCCCATGC CTCTGCTGAGA GGTAGAGATG AATTACAGCA 4441 ACAGGTGCAG AAAGGTGCCC GCCCTATGCT TGCCTAAGAA TGAAAGAGGA 4501 GCCAGTGGT TAAAGATGAG GTCACCAACA ACGGTGGTGT TGCCTAAGAA TGAAAGAGGA 4501 ACAGGTGCAA AATGTAAATT ATTGATGTT ATTGAGCTA GTGCAGTGG TGGGGCATTT 4621 AGCCAATTGT CTCTGATCCC TATGACAACA CTGAGAGGTA GTGCAGTGG TGGGCCATGT 4621 ACAGGTGAGG TCATTGTGGT TCAAAGACC CTGAGAGGTA GTGCTAGTAGA TCACGAGTTA 4621 TAAGATAAGGC AGCCAGATT TCAAGGACG TAAGTAACTT CCCCACCCG 4601 CCTCGCCATC TGTATCCTCC AATCACTTCA GTGCTTGTCT GCCTGCAAAG TCCCCACCCC 4601 CCTCGCCATC TGTATCCTCC AGGAAGACG AAACTGAGG GATGGCTGG CAATGAGGTA 461 CACGAGTGCCA CAGACTGTCC AGGAAGACG AAACTGAGG GATGGCTGG CAATGAGTT 4721 CAACCCAGAC TGGAATCTCC AGGTTGGAA TGGATACATT TTCTCTTTT AATAAAATTA 4821 CTCACCCACC CACACGGCTTT GAGAGGCTCA AAACTGCAC ACTCCTTGG GAGGGCCCG 5041 GTTGAATAAG AAGACAGAA GAACTGAG GCCCCGTTT AAACCAGAGG TCAAGGGGCCG 5041 GTTGAAGAGGA AATCTTCCCA TCACGGAAGC TTCAAGGAGG TCAAGGGGCC 5041 GTTGAAGAGA AAACATGAG GCCCCCGTTT AGAACCAAGA ATCCCCCACCCACCACCACCACCACCACCACACCA	42	61	CAACAGCCAT	' GAAAAAAGAA	ATGCAAAGCG	ATTCAGGATG	AGAGCAATAC	CCTACTCCAA
4441 ACAGRITCHA ARAGATGACT GCCCTATGGT CTGTGAGTCT TGCCTAAGAA TGAAAGAGGA 4501 GCCAGTGGGT TAAAGATGAG GTCACCAACA ACGGTGGTGT TGGAGTTTAC CACTGATAAT 4561 AAGGGTGCAA AATGTAAATT ACTAATGTTT ATTGAGCCTA GTGCATGGT GGGGCATTT 4621 TGCACATTGT CTCTGATCCC TATGACAACC CTGAGAGGTA GTGGTTTTAA CTGACGGCTTA 4681 ACAGGTGAGG TCATGTGGGT TCAAGAGAGC TAAGATAACT CCCACGCGTG ACAGGGCTTA 4741 TAAGTAAGGC AGCCAGGATT TGAACACCAGT AGGACTATCT GCCACGCGTG ACAGGGCTTA 4741 TAAGTAAGGC AGCCAGGATT TGAACACCAGT AGGACTATCT GCCACCCC 4801 CCTCGCCATC TGTATCCTCC AATCACTTCA GTGCTTTGCT GCATAGAAGG TCCCCACCCC 4801 CCTCGCCATC TGTATCCTCC AGGACGAGCA GAACTTGGCA GGCGCTGC 4921 CAAGCCAGAC TGCAATCCTC AGGACGAGCA GAACTGGCA GCCAGGGCTGC 4921 CAAGCCAGAC TGCAATCTCC AGGACGAGCA GAACTGGCA GCCAGGGCTGC 4921 CAAGCCAGAC TGCAATCTCC AGGACGAGCA AAACTGGCA ACTCCCTTTG GAGGGCCCC 4921 CACCCACAC ACACGGCTT GAGAGGCTC AAGTTGACCA ACTCCCTTG GAGGGCCCC 4921 CACCCAGAG AGCACATGCA AGCACATGCA AACCACTGGAGG CTCCACACGGAGA ATCCCCAGGAGA ATCACAGGAGG TCAGAGGGCCC 4921 CACCAGGGG ACTCAGGAGG ACTCCAGGAGA AACCACGGAGG CTCAGAGGGCCC 5011 ACACCTGAG AGACATAGA CCCCCCTTT AGAACCAAGG ATCAGAGGGG CCCCCTTTAAG 5011 CACCACAGGG ACACATGAG ACCCACTGAG AACCAACGG ACCACATGAG 5221 ACCCAGGGG ACCCCCATG CTGAGCGCG GCATGCAGA AACCACCTG ACCCCCCCCCC	43	21	AGAAGGCAAC	ATAGAAGCTC	AGAGAGATCA	AGCAATTTGC	CCAAGACCAC	ACAGCTAGGA
4561 AGGGTGCA AATGTAAATT ACTAATGTTT ATTGAGCTA GTGCAGTGCG TGGGGCATT 4621 TGCACATTCT CTCTGATCCC TATGACAACC CTGAGAGGTA GTGGTGTGT TGGAGATT 4621 TGCACATTCT CTCTGATCCC TATGACAACC CTGAGAGGTA GTGGTGTTTAA CTGCCATGTT 4621 ACAGGTGAGG TCATTGGGT TGAAGCAGGT TAAGTAACTT CCCCAGCGTG ACAGGGCTTA 4631 ACAGGTGAGG TCATTGTGGT TGAAGCAGGT TAAGTAACTT CCCCAGCGTG ACAGGGCTTA 4741 TAAGTAAGGC AGCCAGGATG TGAAGCCAGT AGGACTATCT GGCTGCAAAG TCCCCACCCC 4801 CCTCGCCATC TGTATCCTCC AGTCAGGAGAGA TGCCCACACCC 4801 CCTCGCCATC TGTATCCTCC AGACACGAGA AGACCTACTCT GGCTGCAAAG TCACCACCCC 4802 CAGACTGCCA CAGACTGTCC AGGATGGAGA TGAATGACAT TCTCTCTTT AATAAATTAA 4811 CACACAGAGA TGGAATCTCC AGGTCTGGAA TGGATACATCT TCTCTTTT AATAAATTAA 4812 CTCACCCAC ACACGGCTTT GAGAGGCTCA AGACTCACGA ACTCCCTTGG GAGGGCCCG 5041 GTTGATAAGG AGGACAGTA AATCCTCCCA TCACGGAAGC TTCAAGGGAGG TCAAGGGGCC 5041 GTTGATAAGG AGACATGAA GCCCCCGTTT AGACCAAGG ATCACAGGGGG 5101 AACACTTGAG ATTGTTAGTG CTGTTGGTGG ATACTGGCCA AGGAAATATC CACAGTGGAG 5221 ACCCAGGGGA GTCAAGGTGCA TGGAGCGCG GCATGCAGA AACACCCTG AGGGCCCG 5281 CGCCTTCTCC TTGTCCTGGC TGGTTGTCCT TAACCCTGC AGCCAGAATATC CACAGTGTTT 5341 GTCCTTCCCT TGTGACCGCT GAGGGCTAC AGCCATCTTTC 5341 GTCCTTCCCT TGTGACCGCT GAGGGCTAC ACCATCCAGC CCCCTTTCTCG AGCCAGACATATC 5341 ATCCTCCATG TCACCCTTGCA AGGGCCCAC CTTAACGGGA CCTTTCCCCA GAGCAAATCT 5401 ATGCTCAATG TCACCTTGCA AGGGCCCAC CTTAACGGGA CCTTTCCCCA GAGCAAATCT 5521 TTCGTGCTGG CACCCTAGA GAACATCTT TGTCCTAGC CCCCCTTCCT CTGGGTCTC 5521 TTCGTGCTGC CCACCCTAGA GAACACTTT TGTCCTAGC TCTCTCCCA GACCAAACC 5521 ATGCGCCGC CCTTCTGGC CACCCTAGA GACACTCTT TCCACACAC TCTCACCACAC CTTTCTGCCC 5521 ATGCGCCGC CCTTCTGGC CACCCTTCC TCCACACACC CTTCTGCCC GACCAACCC 5521 ATGCGCCGC TGCGCTGGC CACCCTTCC TCCACACACC CTTCTGCCC GACCACACC 5521 ATGCGCCGC TGCGCTGGC CACCCTTCC TCCACACACC CTTCTGCCC GACCACACC 5521 ATGCGCCGC TGCGCTGGC CAACCCTCC CCTTCTGGC CACCACACC 5521 ATGCGCCGC TGCGCTGGC CACCCTTCC GCCCTGGGA AACCCATTCTCCC 5521 ATGCGCCGC TGGGCAAA CGCTACCTCT CCCACACAC CCACACACCC 5521 ATGCGCCAC CCTTCCTGGC CACCCACCC CACGCACAC CCACGCACCC 601 ATGCAGGTGC TGCGCACAA CGCTACCTCT GCCCCTGGA ACACCCT	4.3	8 T	GTGGAACTCA	TGGCTGTCCA	AGCCCCATGC	CTCTGCTGAA	GGTAGAGATG	AATTACAGCA
4561 AGGGTICCA AATCHAART ACTAATGTT ATTGACCCTA GTGCAGTGG TGGGCATTT 4681 ACAGGTGAGG TCATTGTGGT TCAAGGACGT TAGGAGGTA GTGCTTTTAA CTGCCATGTT 4681 ACAGGTGAGG TCATTGTGGT TCAAGGACGT TAGGTATCT CCCCACCGTG ACAGGGTTA 4741 TAAGTAAGGC AGCCAGGATG TGAACCCAGT AGGACTATCT GGCTGCAGAGG TCCCCACCCC 4801 CCTCGCCATC TGTATCCTCC AATCACTTCA GTGCTTTGCT GCATAGAAGG TAACGGAAAT 4861 CACGATGCCA CAGACTGTCC AGGACTGCTC GGTAGAGAGG TAACGGAAAT 4861 CACGATGCCA CAGACTGTCC AGGACTGCTC GGTAGACGA GAACTGGCCA GAGGACTGCC 4921 CAAGCCAGAC TGGAATCTCC AGGTCTGGAA TAGATGACCA ATCCCTTTG GAGGGCCCC 4921 CAAGCCAGAC TGGAATCTCC AGGTCTGCA AACTCACCTTGG GAGGGCCCC 5041 GTTGATAAGG AAGGACAGG AACCTCCCA ACTCCCTTGG GAGGGCCCC 5041 GTTGATAAGG AAGGACAGG ATTGTTAGTG CTGTTGGTG ATCACGAACCA ACTCCCTTGG GAGGGCCCC 5101 AACACTTGAG ATTGTTAGTG CTGTTGGTGG ATACTGACCA ACTCCCTTGG GAGGGCCC 5101 ACACCTTGAG AGACACAAGG ATCCGAGAGG CTCCACCTT 5281 CGCCTCTCC TTGTCCCTGGC CTGGTGCTCT TAACCCCTGT AGAACCAAGG ATCAGAGGG CCTCTGTAAG 5221 ACCCAGGGGA CTCAGGTGCA CTGCAGGCCC GGCATGCAGA AAACAACCTG AGCTCCACCT 5281 CGCCTTCCC TTGTCACCGGT CTGGAGGCGC GCCCTTTCC CTCTCTCTG ACCGCTCCAC 5281 CCCCCAAGTGG AGTGGCTGG CTGGCTCAC ACCTCTTC CACCTCCCCT 5281 ATCCTCCCT TGTCACCGGT CTGCACCACCAC ACCACCACAC ACCACCACAC ACCACCAC	44	4 I	ACAAGTCTAG	AAAGGTGCCT	GCCCTATGGT	CTGTGAGTCT	TGCCTAAGAA	TGAAAGAGGA
4681 ACAGGTGAGG TCATTGAGCC TATGACACC CTGAGAGGTA GTGGTTTTAA CTGCCATGTT 4741 TAAGTAAGGC AGCCAGGATG TGAAGCCAGT TAAGTAACTT CCCCAGCGTG ACACGGCTTA 4741 TAAGTAAGGC AGCCAGGATG TGAACCCAGT TAAGTAACTT CCCCAGCGTG 4861 CCCGACCCC CAGACTGTCC AGGAGAGCAG TAGGCATATCT GCCTGCAGAGG 4861 CACGATGCCA CAGACTGTCC AGGAGAGCAG TAGGCATATCT GCCTGAGAGG TAACGGAAAT 4861 CACGATGCCA CAGACTGTCC AGGAGAGCAG AACTCAGGCA GATGGCCCG 4921 CAAGCCAGC TGGAATCTCC AGGAGAGCA AACTCAGCA CATCCCTTGG GAGGGCCCG 5041 CTGATAAGG ACACGGCTTT AGAGAGGCTCA AACTCACCTTGG GAGGGCCCG 5041 CTGATAAGG AACGACATGA AACTCACCA ACTCCCTTGG GAGGGCCCG 5101 AACACTTGAG ATTGTTAGTG CTGTTGGTG ATACTGCCA AGGAACTAC CCAGGGGG GTCAGGTGCA 5221 ACCCAGGGGG GTCAGGTGC CTGGAGCGC GAGCAGCACA AACAGCCCTG AGCTCACCT 5221 ACCCAGGGGG GTCAGGTGC CTGGAGCGC GACGACACA AACAGCCCTG AGCTCACCT 5231 CTCCTCCCT TTGTCCTGCC TGGTTGTCCT TAACACCACTG 5241 CCCCAAGGGA CTCAGCTGCA CTGGAGCGCG GACGTCAGAA AACAGCCCTG AGCTCACCT 5251 CTCCTCCCT TTGTCCTGC TGGTTGTCCT TAACCCCTG CTCCTTCTG ACCACTTCTT 5341 GTCCTTCCCT TTGTCCTGC TGGTTGTCCT TAACCCCTG CTCTTCTTC CACCGCCGAC 5401 ATGCTCAATG ACTGCCTCA AGGGCCTACA ACCACTCAGC 5401 CCCCAACTGG ACTGCACACA ACCACTCTT CCCTTCTCTC CACCCCCGCC 541 TGCGGGCTGC CCCCTCTGAGA GACCACTCTT CTCCTCTCCCT CTGGGTGCT 551 ACCTCTCCC CCTCTCTGGC CACCCAAGACT CTACACAACT TCCAACAACT TCCACACACC TCTTTGCCCT GCACAAAGACC 541 TGCGGGGCTG CCCTTCTGGC CACCCACACACCACCCCTC TCCACACACCC TCCTTCCCC CCCCTTCCT CTGGGGGG 5421 ACCGCCTCT CTGGGCAACAA TGCCATTTC TCCATGAACC TTCACACACC CTTTTCGGGAG 5421 ACCGCCTC TGGCGCAACAA TGCCATTCTC CCCTTCTCGCC CACCCACCCCCCCCCC	45	01	GCCAGTGGGT	TAAAGATGAG	GTCACCAACA	ACGGTGGTGT	TGGAGTTTAC	CACTGATAAT
4681 ACAGGTGAGG TCATTGTGGT TCAAGGACGT TAAGTAACTT CCCCAGCGTG ACACGGCTTA 4741 TAAGTAAGGC AGCCAGGATG TGAACCCAGT AGGACTATCT GGCTGCAAAG TCCACCCC 4861 CCTCGCCATC TGTATCCTCC AGTACCTCA GGCTGTTGTG GCATAGAAGG TAACGGGAAT 4861 CACGATGCCA CAGACTGTCC AGGAAGCAG AAACTAGGCA CATGGGCTGG CCATGGTCT 4921 CAAGCCAGAC TGGAATCTCC AGGAAGCAG AAACTAGGCA CATGGGCTGG CCATGGTCT 4921 CAAGCCAGAC TGGAATCTCC AGGAAGCAG AAACTAGGCA CATCCCTTTGG GAGGGCCCCG 5041 GTTGATAAGG AAGAACTGG CAACGGCTTT AGAGAGCAGA AAACTGACCA ACTCCCTTTG GAGGGCCCCG 5041 GTTGATAAGG AAGAACTGAG CTGTGTGTG ATACTGCACA ACTCCCTTTG GAGGGCCCCG 5101 AACACTTGAG AGAACATGAG CCCCCCGTTT AGAACCAAGG ATCAGAGGGG CTCTGTAAG 5221 ACCCAGGGGG ACAGACTGAG CCCCCCGTTT AGAACCAAGG ATCAGAGGGG CTCTGTAAG 5221 ACCCAGGGGG ACCAGTCACA CACACCCTGT TGTCCTCTC TGTGCCCGC TGGTGCCCT TAACCCCTG CACTTTCTT CAGCGCCGAC 5401 ATGGTCAATG TCACCTTGCC AGGGGCTAC AAACAGCCTG CCCCTTTCT CAGCGCCGAC 5401 ATGGTCAATG TCACCTTGCA AGGGCCCAC CTTAACGCGG CCCCCTTCCT CAGCGCCGAC 5521 TCGGTGCTG CCACCCTAGA GAACATCTTT GTCCTCAGGG TCTTCTCCCT TCAGCGCCGAC 5521 TCGGTGCTG CCACCCTAGA GAACATCTTT GTCCTCAGGG TCTTCTCCCT TCGGCC GACCAAGAGC 5531 AGCTGCACG CGCTGGGC CACCCTAGA AAACAGCCT CCCCTTCCT CTGGGGGGG 5541 TGCGGGCTGC CCCTTCTGGC CACCCTAGA CACATCCAGC CCCCTTCCT CTGGGGGGGG 5541 TGCGGGCTGC CGCTGGGC CAACCACTAC CCCCTTCCT CTGGGGGGGG 5541 TGCGGCTCC CCTTCTGGC CACCCTAGA CACACCTC TCCAACAACT TCCAACAACT TCCAACAACT CTCATCGGCC 5541 TGCGGGCTGC CGGCCTGGGC CAACCCTTCC GCCCTGGTG AACCCAGCC CACCCTTCGTC 5541 TGCAGGGCTC CCTGGGC CAACCCTAC CCCCTTCCTC CTGGGGGGGGAACAA CACTCTGCCC 6001 CTGAATGTCC CGCTCGGC CAACCCTAC CCCTTCTCTC CCACCAGGACC 5541 CTCACCAGTC CCCTCTCTGGT TGTCCTCAC CACCTCCCCC 6001 CTGAATGTCC TGGGCCTAC CCCCTTCCAC CACCATCCC 6001 CTGAATGTCC TGGGCCTAC CCCCCTTCCAC 6001 CTGAATGTCC TGGTCCCT TGGCCCCT CCTACCAGC CCCCCTTCCAC 6001 CTGAATGTCC TGGGCCAAAAC CGAGACTCC TCCTCTCTCC CCACGAACAC 6001 CTGAATGTC TTCCTGGAAC CGAGCACAAC CTCTCTTCTCC CCACGAACAC 6001 CTGAATGTC TTCCTGGAAC CGAGCACAAC CTCTCTCTCCCCCCC CCAGCAACAC 6001 CACACGACT TCCTGGAAC CGCCCCCTCCCC CCCCCACACAC 6001 CACACGACC TTCCTGGACA CGCCCCCCCACACAC 6001 A	45	o T	AAGGGTGCAA	AATGTAAATT	ACTAATGTTT	ATTGAGCCTA	GTGCAGTGCG	TGGGGCATTT
4741 TAAGTAAGGC AGCAGGATG TGAACCCAGT AGGACTATCT GGCTGCAAGG TCACCACCC 4801 CCTCGCCACC TGTATCCTCC AATCACTTCA GTGCTTTGCT GCATAGGAAGG TAACGGAAAT 4861 CACGATGCCA CAGACTGTCC AGGAGGACG AAACTAGGCA GATGGGCTGG CCATGGTCTC 4921 CAAGCCAGAC TGGAAATCTCC AGGAGGCTCA AGGTTGACCA ACTCCCTTGG GAGGGCCCG 4921 CAAGCCAGAC TGGAAATCTCC AGGAGGCTCA AACTTGACCA ACTCCCTTGG GAGGGCCCG 5041 GTTGATAAGG AAGGAACTGA AACTTCACCA TCACGGAGC TCAAGGGGGC 5161 CTCGAGAAGA ATTGTTAGTG CTGTTGGTGG ATACTGCCACA AGGAATATC CCAGTGGACC 5221 ACCCAGGGGA GTTGATGTGC CTGTGGGCG GGCTGCAGA AAACAGCCCTG AGGCCCACCT 5281 CGGCTTCCC TTGTCCTGGC TGGTGTGCT TAACACCACG ACCACTCCTTTG ACACCACGC 5281 CGCCTTCCC TTGTCCTGGC TGGTGTGCT TAACCCCTGT CTCTTCTG ACCACTTTT 5341 GTCCTTCCCT TTGTCCTGGC TGGTTGTCCT TAACCCCTG CTCTTCTGG ACCACTTTTT 5341 GTCCTTCCCT TCACCACCGC GAGGGGTACA AGCCCCTGTT CACCTGCCACCT 5281 CCCCAAGTGG AGGCCTCACA AGGCCCCACC TTAACGGGA CCTTTCTTCT CACGGCCGGC 5461 CCCCAAGTGG AGGCCTCACA AGGCCCCACC TTAACGGGA CCTTTCTCTC CTGGGTGCTG 5521 TTCGTGCTGC CCACCCTACA GAACATCTTT GTCCTCAGG TCTTTGCCT GCACACAACC 5581 AGCGCACACG CCCCCTTCACA GACCACCTC TCACACACC TCCACCACC TCTTGGGCAC 5701 ACGCTCTGCC CCCCCTTGCGC CACCCACCACC 5701 ACGCTCTGCC CCCCCTGCC CACCCACCACC 5701 ACGCTCTCCC CCCCCTGCC CACCCACCACC 5701 ACGCTCTCCC CCCCCTGCC CACCCACCACC 5701 ACGCTCTCCC CCCCCTGCC CACCCACCACC 5701 ACGCTCTCCC CCCCTGCC CACCCACCACC 5701 ACCCCACTCC TCACGCC CCCCCTTCCT CTGGGGGC 5701 ACCCCACTCC TCACCATCC CACCACCACC 5701 ACCCACCACC TCCCCCTC CACCACCACC 5701 ACCCACCACC TCCCCCCCC CACCACCACC 5701 AACCCACTGC CCCCCCCCCCCCCCCCCCCCCCCCCCCC	46.	2 I 0 1	TGCACATTGT	CTCTGATCCC	TATGACAACC	CTGAGAGGTA	GTGGTTTTAA	CTGCCATGTT
4861 CACGATECCA TETATCCTCC AGGAGAGACA AACTAGGCA GATGGGCAGAT 4861 CACGATGCCA CAGACTGTCC AGGAGAGACA AACTAGGCA GATGGGCTGG CCATGGGTCTC 4921 CAGACCAGAC TGGAATCTCC AGGAGAGACA AACTAGGCA GATGGGCTGG CCATGGTCTC 4921 CAGACCAGCA CACAGGCTTT GAGAGGCTCA AAGTTCACCA TCACGGAGC TCAAGGGTCC 5041 GTTGATAAGA AAGGAACGTG AATCCTCCA TCACGGAAC TTCAAGGAGG TCAAGGGTCC 5101 AACACTTGAG ATTGTTAGTG CTGTGTGGTGG ATACTGGCCA AGGAAGTTC CCAGTGGAGC 5101 AACACTTGAG ATTGTTAGTG CTGGAGCGC GACACACAGA GACAGCCTG ACCAGGGGCCCG 5101 ACCACTGAG ATGTTAGTG GCCCCCTTT AGAACCAGC ACCAGGGGG GCCCCCCTTT 5221 ACCCAGGGGA GTCAGGTGCA CTGGAGCGC GGCATCACA AAACAGCCTG ACCACCTT 5232 CGGCTTCTCC TTGTCCTGGC TGGTGTCCT TAACCCCTT CTCTCTTCTG ACCACCT 5231 CTCCTCCCT TGTGACCGC GAGGGGTACA AGCCTCACA AACAGCCTG ACCACTTTT 5341 GTCCTTCCCT TGTGACCGC GAGGGGTACA AGCCTCCTT CCCTCTTGG ACCACTTTT 5341 GTCCTTCCCT TGGACGCG GAGGCCCACT CTTAACGCGA CCTTTCTTC CAGCGCCGA 5401 ATGCTCAATG ACTGGCAGGG CTGGCTCAAC ACCATCCACC CCCTTCCT CTGGGGGC 5521 TTCGTGCTGG CACACCTACA CACACTCT CCAACACAC TCCACACACT CCCACACGC CCCCTTCCT CTGGGGCC 5541 TGCGGGCTGC CCTCTCTGGGC CACCCTACCAC TCCACACACT TCCACACACT CTCACACACT CTCACTGGCC 5541 TGCGGGCTGC CCTCTCTGGGC CACCCATCCC TCCACACACACT TCCACACACT CTCACACACA	40	4 1	ACAGGTGAGG	TCATTGTGGT	TCAAGGACGT	TAAGTAACTT	CCCCAGCGTG	ACACGGCTTA
4961 CACGATGCCA CAGACTGTC AGGARAGACAG AAACTAGGCA GATGGCTGG CCATGGTCTC 4921 CAAGCCAGAC TGGAATCTCC AGGTCTGGAA TGATATCATT TTTCTCTTTT AAAATTAA 4981 CTCACCCACC ACACGGCTTT GAGAGGCTCA AAGTTGACCA ACTCCCTTGG GAGGGCCCG 5041 GTTGATAAGG AAGGACCTG AATCCTCCCA TCACGGAAGC TTCAAGGAGG TCAAGGGTCC 5101 AACACTTGAG ATTGTTAGTG CTGTTGGTGG ATACTGGCCA AGGAAATATC CCAGTGGAGC 5101 CTCGAGATGA AGAACTAGGA GCCCCCGTTT AGAACCAAGG ATCACAGGGG GCTCTGTAAG 5221 ACCCAGGGGA GTCAGGTCA CTGGAGCCGG GGCATCAGAA AAACAGCCTG AGCTCTTCC 5281 CGGCTTCTC TTGTCCTGGC TGGTTGCCT TAACCCCTGT CACTTTCTTT CAGCGCCGAC 5341 GTCCTTCCCT TGTGACCGCT GAGGGGTAC AGCCATTCTC CACTTTCTTT 5341 GTCCTTCCCT TGTGACCGCT GAGGGGTAC AGCCTCTTTC CACTTTCTTT 5341 GTCCTTCCCT TGTGACCGCCT GAGGGGTAC AGCCTCTTTC CACTTTCTTT 5401 ATGCTCAATG TCACCTTGCA AGGCCCACT CTTAACGGGA CCTTCTCCCA GAGCAAATGC 5410 ATGCTCAATG TCACCTTGCA GAGCCCACT CTTAACGGGA CCTTCTCCCA GAGCAAATGC 5411 TCCTGCCTGG CCACCCCTAGA GAACATCTTT GTCCTCAGCG CCCCCTTCCT 5521 TTCCTGCCTG CGACCCATGA GAACATCTTT GTCCTCAGCG CACCAGAGAC 5521 TCCGTGCAGG TGGCCAGAGAT CTACCTGGG AACCTTGGCC CAGCACACC CTTTGGGC 541 TGCGGGGTGC CCTTCTGGGC CATCACCATC TCCAACAACT TCGACTGGC CATCACGCG 551 ATGCGCGGG TGGCGTGGAC ATGCACTAT TCCAACAACT TCGACTGGC CATCACCTC 561 TAGGCTCTCC CCTTCTGGGC CATCACCATC TCCAACAACT TCGACTGGC CATCGGCC 5821 ATGCGCGGG TGCGCTGGGC CAAGCTCTAC AGCTTGGTGA TCTGGGGG 5821 ATGCGCGGG TGCGCTGGGC CAAGCTCC CTCTGTGTA AACCCATCC 5831 CTGAGCTCCC CCATGCTGGT GTCCGACCA AGCTTCACACACT CCTTCTGCAC 6001 CTGAATGTCG TGGCGTACAC CAGCTCCC CTCATCTGGG AAGCTCTCC 6001 CTGAATGTCG TGGCGTACAC CAACCATCC CTCATCTGGG AAGTCTCAC 6001 CTGAATGTCG TGGCGAAAC CAACATCCC CTCATCTGGA AAGCTCACAC CAACATGCC 6001 CTGAATGTCG TGGCGAAAC CAACATCCC CTCATCTGGA AAGTCTACAC CAACATGCC 6001 CTGAATGTCG TGGCGAAAC CAACATCCC CTCATCTGGA AAGTCTCACAC CAACATGCC 6001 CTGAATGTCG TGGCGAAAC CACCATCC CTCATCTGGA AAGACTCCAC CAACATCCC 6001 CTGAATGCG TGGCGAAAC CCCCCCCCC AAGACCCACAC CCTTCCAGCAC 6001 AACCACTGG GAACCTCC TCCTGGAACAC CCTTCCAGCAA AACACTCTGC 6001 CTGAATGCG GAACACCTT TCCGGGAACAC CCCCCCCCACAAC CCCTCCCCC 6001 AACCACGGG GAACCTCCA TCCCGGCACAC CC	4/4	4 I	CCTCCCCATA	AGCCAGGATG	TGAACCCAGT	AGGACTATCT	GGCTGCAAAG	TCCCCACCCC
4981 CTACCCACC ACAGGCTT GAGAGCTCA AGTTGACA AGTCCCTTGG GAGGCCCGG 5041 GTTGATAAGG AAGCATGCT GAGAGGCTCA AAGTCGCACCA AGTCCCTTGG GAGGCCCG 5101 AACACTTGA ATGTTAGTG CTGTTGGTG ATACTGGCA AGTCCCTTGG 5101 ACACTTGA AGAACATCAG GCCCCCGTTT AGAACCAAGG TTCAAGGGGG GCCCCGTTT 5221 ACCCAGGGGG GTCAGGTGCA CTGGAGCGC GGCATGCAGA AACAGCCTG ACCTCACCT 5281 CGCTTCTCC TTGTCCTGC TGGAGCGCG GGCATGCAGA AACAGCCTG ACCCACCT 5281 CGCTTCTCC TTGTCCTGC TGGAGCGCG GGCATGCAGA AACAGCCTG ACCACTTTTT 5341 GTCCTTCCCT TGTGACCGCT GAGGGCTACACA ACCATCTTCT CACTTTCTT 5401 ATGCTCAATG TCACCTTGCA AGGCCCACC CTTAACGGGA CCTTTTCCCA GAGCAATGC 5401 ATGCTCAATG TCACCTTGCA AGGCCCACC CTTAACGGGA CCTCTTTCCCT 5521 TTCCTGCTGG AGTGCTGAAC ACCATCCTGC CCCCCTTCCT CTGGGTGCTG 5521 TTCCTGCTG CCACCCTTAGA GAACATCTTT GTCCTAACGGA CCTTTTGCCT CTGGGTGCTG 5521 TTCCTGCCG CTGCCAGAAATC CTACCTGGG ACCTCACCACC CCCCCTTCCT CTGGGTGCTG 5521 TTCCTGCCG CTTCTCGGC CATCACCACAC TCACCACACCT TCGACTAGCT 5541 GCGGGCTGC CCTTCTTGGC CATCACCACAC TCGACCACAC CTTTCGGCG 5541 TGCGGGCTGC CCTTCTTGGC CATCACCACAC TCCACCACAC TCGACCACAC 5701 ACGCTCTCC GCGTGGAA TGCCATTACT TCCATCAACC TTGACCGGA CATCCTTTC 5761 CTGATGCTGG TGGCCTGGC CAACCCATC TCCAACAACT TCGACTGGCT CTTTTGGGAG 5701 ACGCTCTCC GCGTGGGC CAACCCTTC ACCTTGGTA AAACCATGCT CATCGGCGG 581 ATGCGCGGCG TGGCCTGGGC CAACCCTTC ACCTTGGTA AAACCATGCT CATCGGCCG 5821 ATGCGCGGCG TGGCCTGGGC CAACCCTTCC AGCTTGTAC AACCATGCT CATCGGCGG 581 CTGAATGTC TGGCCTGGGT GTCCCGCAC ACCTTCTGGA AACCATGCT CAACCACCT CAACCACC CCATCCTGGACAC CAACCTTCCT CAACCACC CCTTCCTGCA CAACCTCCC CCAACCACC CCAACCACC CCAACCACC CCAACCACC	10	61 61	CACCATC	CACACTCCTCC	AATCACTTCA	GTGCTTTGCT	GCATAGAAGG	TAACGGAAAT
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5041 GTGATAGG AAGGARGGTG AATCCTCCCA TCACGGAGC TTCAAGGAGG TCAAGGGTCC 5101 AACACTTGAG ATTGTTAGTG CTGTTGGTGG ATACTGGCCA AGGARATATC CACGTGGAGC 5101 CTCGAGATGA AGAACATGAG GCCCCCGTTT AGACCCAGG ATCACAGGGG GCTCTGTAAG 5221 ACCCAGGGGA GTCAGGTGC CTGGAGCGCG GGCATGCAGA AACAGCCTG AGCTCCACCT 5281 CGCCTTCTCC TTGTCCTGGC TGGTGTCCT TAACCCCTGT CTCCTTCTGG AGCTCCACCT 5341 GTCCTTCCCT TGTGACCGCT GAGGGGTAAC AGCCTCTTC CACTTCTTCT CAGCGCCGAC 5401 ATGCTCAATG TCACCTTGCA AGGGCCCACT CTTAACGGGA CCTTTCCCCA GAGCAAATGC 5401 ATGCTCAATG TCACCTTGCA AGGGCCCACT CTTAACGGGA CCTTTCCCCA GAGCAAATGC 5401 ATGCTGAATG CCACCTAGA GAACATCTTT GTCCTCAGCG CCTCTTCCT CTGGGTGCTG 5521 TTCGTGCTG CCACCTAGA GAACATCTTT GTCCTCAGCG TCTTCTGCCT GACACAAGAC 5521 TTCGTGCTG CCACCTAGA GAACATCTTT GTCCTCAGCG TCTTCTGCCT GACACAAGAC 5541 AGCTGCACGG TGGCAGAGAT CTACCTGGG AACCTGGCC CAGCAGACCT GTTTGGGCAG 5701 AGCCTCTGCC GCGTGGTAA TGCCATTATC TCCATGAACC TGTACAGCAG CATCTGTTC 5761 CTGATGCTGG TGAGCATCGA CCCCTACCTG GCCCTGGTGA AAACCATGTC CATCGGCCG 5821 ATGCGCGGGG TGAGCATCGA CCGCTACCTG GCCCTGGTGA AAACCATGTC CATCGGCCG 5821 ATGCGCGGGG TGAGCATCAC CCCTACCTG GCCTGGTGA AAACCATGTC CATCGGCCGG 5821 ATGCACGGGT TGAGCTGGC CAACCTTCAC AGCTTGGGAA AAACCATGTC 5841 GTCACCGGTT GTGCATCAG CCCCTACCTG GCCTTGGGAA AAACCATGTC 6001 CTGAATGTCG TGGCCTGGC CAACCTTCAC AGCTTGGGAA AAACCATGTC 6001 CTGAATGTCG TGGCCTGGG CTACCTGC CTCATCTGGA AAACCATGTC 6001 CTGAATGTCG TGGCCTCCT GCTCCCCTG AGTGTCATCA CCTTCTGCAC GACCTGCTC 6001 CTGAATGTCG TGGCCTCCT GCTCCCCTG AGTGTCATCA CCTTCTCCAC GACCTGCTC 6001 CTGAATGTCG TGGCCTCCT GCTCCCCTG AAACTCATCA CCTTCTCCAC GACCATCCTC 6001 CTGAATGTCG TGGCCTCCT GCTCCCTG AAACTCACAC CACATGCTC 6001 CTGAATGTCG TGGCCTCCT CTGGAACA AACTTCACA CCACATCAC 6001 ATGCAAGCAC TTCCTGGAT CGCCCTCCCTG CTCCACACAC CCACACAC 6121 ACCCACGTG TAGCACCA CCAGATCCA AACTTCACA CCACATCACCATC 6001 CTGAATGCC TCCCTGGAACA CAGATCCAC CTCCATCAGC GACACCACAC 6121 ACCCACATG TGTCACCATC CTCGGAACA CACCTCCAT CCCCTGGAACA CACCTGCCCTCCCTGC CAGCACAC AGCACCCTCC 6101 AACCACTG TTCCACACC CCCCCACACAC CCTCCCTTCCACA CACATCCCAC 611 AACCACTG TTCCACACC CCCCCCCCCCCCCCCCCCCC	109	21	CHAGCCAGAC	1 GGAATCTCC	AGGTCTGGAA	TGATATCATT	TTTCTCTTTT	AATAAATTAA
5161 CTCGAGATGA AGAACATGAG GCCCCCGTTT AGAACAGAG ATCAGAGGG GCTCTGTAAG 5161 CTCGAGATGA AGAACATGAG GCCCCCGTTT AGAACAGAG ATCAGAGGG GCTCTGTAAG 5221 ACCCAGGGGA GTCAGGTGCA CTGGAGGGG GGCATGCAGA AACAGCCTG AGCTCCACCT 5281 CGCCTTCCC TTGTCCTGC TGGTTGTCCT TAACCCCTGT CTCCTTCTGG AGCGCCACT 5281 CTCCTTCCCT TTGTGCCGCT GAGGGGTAAC AGCCTCTTTC CACTTCTTT CAGCGCCGAC 5401 ATGCTCAATG TCACCCTTGCA AGGGCCCACT CTTAACGGGA CCTTTGCCCA GAGCAAATGC 5401 ATGCTCAATG TCACCCTTGCA AGGCCCCACT CTTAACGGGA CCTTTGCCCT GAGGGAAATGC 5401 ATGCTCAATG ACACCTTGCA AGGCCCCACT CTTAACGGGA CCTTTCTCCT CTGGGTGCTG 551 TTCGTGCTGG CCACCCTAGA GAACATCTTT GTCCTCAGCG CCCCCTTCCT CTGGGTGCTG 5521 AGCTGCACGG CCACCCTAGA GAACATCTTT GTCCTCAGCG TCTTCTGCCT GCACAAGAGC 5541 TGCGGGCTGC CCTCTTGGGC CATCACCATC TCCAACAACT TCGACTGGCT CTTTGGGGAG 5701 AGCTCTGCC GCGTGGTAA TGCCATTACT TCCATGAACC TGTACAGCAG CATCTGTTC 5761 CTGATGCTGG CGCTGGGC CAACCTTAC AGCTTGCCT AAACCATCT CATGGGGGG 571 AGCCTCGCC CCATCCTGGC CAACCTTACA AGCTTGCTA AAACCATCT CATGGGCCGG 5821 ATGCGGGGCT TGCGCTGGGC CAACCCTTAC AGCTTGCTA AAACCATCT CATGGGGGT 571 ATCACCGCTT GTGCACCATC CTCAACAGAGT ACACCGATGA GAGCCAAC 5841 GTCACCGCTT GTGCACCATC CTCAACAGAG AACTGTCAC CAACCTTCC 6001 CTGAATGCT TGGGCTTCCT GCTCCCCTC CTCATCTGGG AAGTGTTCAC CAACATGCTC 6001 ATGCAGGTCC TGCGCCGGC CAACCCATCC CTCATCTGGA AAGTGTCACAC CAACCATCCC 6001 ATGCAGGTC TCCTGGAACA CGAGATCCAA AAGTTCAAG AAGTGTCAAC 6121 GCCACGGTG TGTCCTGGT GTGCCCTC CTCATCAGG AAGTGTCACAC CAACCATCCC 6121 ACCCACGTG TGTACCTGGT TGTGCTGCC CTCTCTCAGG AAGTGCACAC GGACAGAGG 6121 GCCACGGTG TGTACGGAC ACGAATCCAC CTCTCTCAGG AAGTTCAACACCAC GGACAGAGG 6121 ACCCACGTG TGTACCGGT TGTGCTGCC CTCTCATGGC CTTCCAGCAC GGACAGAGG 6121 ACCCACGTG TGTACGTGAT CTCTGGCTG CTCTCAGACAA CAGACTCCC 6121 ACCCACTTG TGTACGTGAT CTCTGGACAA CAGATTCAA CCTTCCAGGATCAAC 6121 ACCCACATTG TTCAGGAAC GGCCTCCAT CTCTCAGGCT CTCTCAGGCT GCACACACCAC 6121 ACCACACTG TGTACCACA CGAGATCAC CTCGCCCAAA CAGACTCCAC 6121 ACACATTGC TTCAGGAC ACGAGTGCC CTCCTCTAGACCAA CAGACTCCAC 6121 ACACATGGT TTCAGGCAA CGCCTCCACAACCACCACACCA	50/	11	CTCACCCACC	ACACGGCTTT	AMCCHCCA	AAGTTGACCA	ACTCCCTTGG	GAGGGCCCCG
5221 ACCCAGGGA GTCAGGTGCA CTGGAGCGC GGCATGCAGA AAACAGCCT AGCTCCACCT 5281 CGGCTTCTCC TTGTCCTGGC TGGTTGTCT TAACCCCTGT CTCCTTCTGG ACCTGACCT 5281 CGGCTTCTCC TTGTCCTGGC TGGTTGTCT TAACCGCT CTCCTTCTGG ACCAGTTTTT 5341 GTCCTACTT TGTGACCGCT GAGGGGTAAC AGCCTCTTCC CACTTTCTT CAGCGCCGAC TACCAGT CACCTTCCCT TGTGACCGCT GAGGGGTAAC AGCCTCATTC CACTTTCTT CAGCGCCGAC CCCCTTCCT CTGGGTGCTGG CTGGCTCAAC ACCATCCAGC CCCCCTTCCT CTGGGTGTGTGCTGG CACCCAGAGAC CCCCCTACC CTCAGAGGG TCTTCGCCA GAGCAAATGC CACCAGAGAC CACCACAGAGC CACCACAGAGC CACCACAGAGC CACCACAGAGC CACCACAGAGC CACCACAGAGC CACCACAGAGC CACCACACACA	510	7 I	AACACTTCAC	AMGGMACGIG	CTCTTCCCA	TCACGGAAGC	TTCAAGGAGG	TCAAGGGTCC
5221 ACCCAGGGGA GTCAGGTGCA CTGGAGGGGG GGCATGCAGA AAACAGCCTG AGCTCACCT 5281 CGGCTTCTCC TTGTCCTGGC TGGTTGTCT TAACCCCTTC CTCCTTCTGA ACCAGTTTTT 5341 GTCCTTCCCT TGTGACGCT GAGGGGTAAC AGCCTCTTTC CACTTCTTT CAGCGCCAC 5401 ATGCTCAATG TCACCTTGCA AGGGCCCACT CTTAACGGGA CCTTTCCCCA GAGCAAATGC CCCCCTTCCT CTGGGTGCT GAGGGTACA ACCATCCAGG CCCCCTTCCT CTGGGTGCT GAGGGTACA ACCATCCAGG CCCCCTTCCT CTGGGTGCT GAGCACAAGGC CCCCCTTCCT CTGGGTGCT GAGCACAAGGC CACCCTAGA GAACATCTTT GTCCTCAGGG TCTTCTGCCC GCACAAAGGC CATCCAGCA ACCATCCAGG TCTTCTGCCC GACCAAAGGC CATCCAGCA ACCATCACGC CAGCAGACCT GATCCTGGCC CATCACCATC TCCAACAACT TCGACTGGCC GATCCTGGCC CATCACCATC TCCAACAACT TCGACTGGCC CATCACCATC TCCAACAACT TCGACTGGCC CATCCTGCCC CATCACCATC TCCAACAACT TCGACTGGCC CATCGCCCG CAAGCACACACCT GACCTTTCC CATGGCCGG CAAGCACACAC TCGACCGGC CAAGCACACAC TCGACCGGC CAAGCACACAC CCATCACCATC CAAGCACACAC TCGACCGGC TACCCTGCC CAAGCACTCA AGCTTGTAC AACCATCT TCCAGGCGG CAAGCCTCAC CAAGCACTCA AGCTTCTAC ACCTTGCTC CAAGCACACAC TCGACCACAC CAAGCACTCA AGCTCTAC AGCTCTACA AGCTCTACA AGCTCTACACACT TCTGGACACAC CAACATCCC CTCATCTGGG AGGCCACAAC CAACATCCC CTCATCTGGC AGTGTCACACAC CAACATCCC CTCATCTGGA AGTGCACAC CAACATCCC CAACATCCC CTCATCTGGA AGTTCAACAC AGCTCTACACACAC CAACATCCC CTCATCTGGA AGTGCACACAC CAACATCCC CAACACACAC CAACATCCC CAACACACAC	516	51	CTCCAGATCA	ACDACATEAG	CCCCCCCTTTT	ATACTGGCCA	AGGAAATATC	CCAGTGGAGC
5341 GGGTTTCCC TGTGACCGCT GAGGGTAAC AGCCTCTTTC CACTTTCTGG ACCAGTTTTT 5341 GTCCTTCCCT TGTGACCGCT GAGGGGTAAC AGCCTCTTTC CACTTTCTTC CAGGGCCGAC 5401 ATGCTCAATG TCACCTTGCA AGGGCCCACT CTTAACGGGA CCTTTGCCCA GAGCAAATGC 5401 CCCCAAGTGG AGTGGCTGGG CTGGCTCAAC ACCATCCAGC CCCCCTTCCT CTGGGTGCTG 5521 TTGGTGGTGG CCACCCTAGA GAACATCTTT GTCCTCAGCG TCTTCTGCCT GCACAAGAGC 5581 AGCTGCACGG TGGCAGAGAT CTACCTGGGG AACCTGGCCG CAGCACACCT GATCCTGGCC 5641 TGCGGGGCTGC CCTTCTGGGC CATCACCATC TCCAACAACT TCACACGACG CATCTGTTTC 5761 CTGATGGCTG GCGTGGGC CATCACCATC TCCAACAACT TCAACAGCAG CATCTGTTTC 5761 CTGATGCTGG TGAGCATCGA CGCCTACCTG GCCCTGGTG AAACCATGC CATCGCTGTTC 5761 CTGATGCTGG TGAGCATCGA CGCCTACCTG GCCCTGGTG AAACCATGC CATCGCTGTTC 5761 CTGATGCTGG TGAGCATCGA CGCCTACCTG GCCCTGGTG AAACCATGCT CATGGGCCG 5821 ATGCGCGGG TGCGCTGGGC CAAGCTCTAC AGCTTGGTA TCTGGGGGTG TACGCTGCTC 5881 CTGAGCTCAC CCATCCTGG GTCCCGCAC CAGCAACGACT ACAGCAGTGA GGGCCACAAC 5941 GTCACCGCT GTGTCATCAG CTACCCATC CTCATCTGGG AAGTCTTCAC CAACATGCTC 6001 CTGAATGTCG TGGGCTTCCT GCTGCCCCTG AGTGTCATCA CCTTCTGCAC GATGCAGACC 6121 GCCACGGTGC TAGTCCTGT TGTCGCCCCTG AGTTCATCA TCTGCTGGC GGCCACAAC 6121 GCCACGGTGC TAGTCCTGT TGTCGCTGCT CTATTCATCA TCTGCTGGC GCCCTTCCAG 6121 GCCACCGTGC TAGTCCTGT TGTCGCCCCTG CTATTCATCA TCTGCTGGC GCCCTTCCAG 6121 ACCACCATCG ATGTAATCAC ACAGATCGCC CTCTCCAGCTC CCCAGGACGAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTCCAGCTC CCCAGGACGAG 6241 CGCACCATGC GACCACA CCGCAGACCAA CACAGATCGC CCAGGACCAA 6301 AACCCACTGG TGTACGTGAT CCTGGGCAA CACAGACCA TTCACGAGA GAACTCTTC 6301 AAACCCACTG GGCACAAAC GGCCTGCAGG CCCTTCCAGG CCAGGAGACCA AGAACTCTT GCAGGGAA ACACCACTG CCAAGAACCC 6301 AAACCACTG GGCACAACACT TCCCGGGAA CGCCTGCAGA CCCAAGAACCCT TCCCAGGGAA AGAACCCTT TCCGGGGCAACACACT TCCCGGGCAA CGCCAGAAACGC GCCCAGAACACT TACGCAACACCT CCAAGAACCC CCAAGAACCCT TTCCGGGGCAACACCT TCCCGGGCAACACCACACC	522	21	ACCCAGGGGA	GTCAGGTGCA	CTGGACCCCG	CCCATCCACA	ATCAGAGGGG	ACCURCANCE
5401 ATGCTCAATG TCACCTTGCA AGGGGTAAC AGCCTCTTC CACCTTCCCA GAGCGAAATGC 5401 ATGCTCAATG TCACCTTGCA AGGGCCCACT CTTAACGGGA CCTTTCCCCA GAGCGAAATGC 5401 CCCCAAGTGG AGTGGCTGGG CTGGCTCAAC ACCATCCAGC CCCCCTTCCT CTGGGTCTG 5521 TTCGTGCTGG CCACCCTAGA GAACATCTTT GTCCTCAGCG TCTTCTGCCT GCACAAAGGC 5581 AGCTGCACGG TGGCAGAGAT CTACCTGGGG AACCTCAGCG CACCAGACCT GATCCTGGCC 5641 TGCGGGCTC CCTCTTGGGC CATCACCATC TCCAACAACT TCGACTGGCT CTTTGGGCAG 5701 ACGCTCTGCC GCGTGGTGAA TGCCATTATC TCCAACAACT TCGACTGGCT CATTGGGCAG 5701 ACGCTCTGCG GCGTGGTGAA TGCCATTATC TCCAACAACT TCTGACTGGC CATTGGCCGG 5821 ATGCGCGCG TGCGCTGGGC CAAGCTCTAC AGCTTGGTA AACCCATCTC TCCAACACT 5881 CTGAGCTCAC CCATGCTGGT GTTCCGGACC ATGAAGGAGT ACAGCGATGA GGGCCACAAC 5941 GTCACCGCT GTTCAATCAG CTACCCATC CTCATCTGGA AACTGTTCA CAACATCCTC 6001 CTGAATGTGG TGGCACACA CGAGAACAA CGAGAACAAC GAGAACAACAAC TTCCAACAACT TCCAACAACT TCCAACAACAC 6121 GCCACGGTGC TGGCCTCAG GTTCCATCAG CAACATCCTC 6181 ATCAGGACC TCCTGGATAC GCTACCCATC CTCTCATCGA AAGTTCAACA GAGAAGAACAAC 6241 CGCACGGTGC TAGTCATCA GCTGCCCTC GCTGCCACCAAC GAGAACAACAAC 6301 AACCCACTGG TTGTCATCA CACGATCGC CTCCGGATCC TCCCAGCAG AAGTTCAACA CAGCAACAC 6301 AACCCACTGG TGTAATCAC ACAGATCGCC TCCTCCAGCTG CCAAGACACAC 6301 AACCCACTGG TGTAATCAC ACAGATCGCC TCCTCCAGCTG CCAAGACACAC 6421 CGCAACACTG GCCAGAAAGG GGGCTCAAG CGCTTCCGAA AGAACTCCATG 6421 CGCACCATCG TCTCACTGGA CGCTCCCAACACCAC TCCAGGCAAC 6421 CGCACCATCG GCCAGAAAGG GGCTCCAAG CGCTTCCCAA AGAACTCTAG GAACTCCATG 6421 CGCACCATCG GCCCAGAAAGG GCCCACCAAC CGCTTCCCAACACAC 6541 AACAGCACT TCCAGCAAA CGCCAACAAC CGCCTCCCAACACCAC CCCAGGAGAC 6611 AAATGACTT TCCAGCAAA CGCCAACAAC CGCCTCCAACACCA TCCAGGCAA 6611 ACAGCAATTC TTCAGCAACA CGCCACACAC CCCCACAACACCA CACCTTCGGC 6611 ACAGCAATTC TTCAGCAACA CGCCACCAG CCTCACACAC CCCACAGACAC 6721 ACAGCAATAC TGTTCTTATT TGCTGCCACA CTCCTGGCCTC CCCAAGACAC 6721 ACAGCAATTC TTCTCATT TTCCCCCCAGC GAACACACT CCCCCCCCACCCCCCCCCACACCCCCCCCCC	528	31	CGGCTTCTCC	TTGTCCTGGC	TECTTETCE	TAACCCCTCT	CTCCTTCTC	AGCTCCACCT
5461 ATGCTCAATT TCACCTTGCA AGGGCCCACT CTTAACGGGA CCTTTGCCCA GAGCAAATGC 5461 CCCCAAGTGG AGTGGCTGGG CTGGCTCAAC ACCATCCAGC CCCCCTTCCT CTGGGTGCTG 5521 TTCGTGCTGG CCACCCTAGA GAACATCTT GTCCTCAGCG TCTTCTGCCT GCACAAGAGC 5581 AGCTGCACGG TGGCAGAGAT CTACCTGGGG AACCTGGCCC CAGCAGACCT GATCCTGGCC 5641 TGCGGGCTGC CCTTCTGGGC CATCACCATC TCCAACAACT TCGACTGGCC CTTTGGGGAG 5701 ACGCTCTGCC GCGTGGTGAA TGCCATTATC TCCATGACC TGTACAGCAG CATCTGTTTC 5761 CTGATGCTGG TGAGCATCGA CCGCTACCTG GCCCTGGTGA AAACCATGTC CATGGGCGG 5821 ATGCGGCGGG TGCGCTGGGC CAAGCTCTAC AGCTTGGTA ACACCATGT CAACAACT 5881 CTGAGCTCAC CCATGCTGGT GTCCCGGACC ATGAAGAGAT ACACCATGT CAACAACT 5941 GTCACCGCTT GTGTCATCAG CTACCCATC CTCATCTGG AAACCATGTCA 6001 CTGAATGTG TGGGCTTCCT GCTGCCCCTG AGTGTCATCA CCTTCTGCAC GACCACAC 6001 CTGAATGTG TGGGCTTCCT GCTGCCCCTG AGTGTCATCA CCTTCTGCAC GACCACAC 6001 ATGCAGGTGC TGCGGAACAA CGAGATGCAG AAGTTCAAGA AGATCCAGAC GAGAGGAGG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTTGCT CTATCCATCA CCTTCTGCAC GAGAGAGGAG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTTGCT CTATCCATCA CCTTCCAGCTG CCCTTCCAG 6301 AACCCACTGG TGTACAGA CGAGATCCAC CTCCTCCAGCTG CCCCTTCCAG 6301 AACCCACTGG TGTACGTAC GCTGCATCGC CTCCTCCAGACAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTAC GCTGCATCGC CTCCTCCAGA CAGCTGCCTC 6301 AACCCACTGG GACCTCCAT CTCCGGGAACA CGCCTTCCAAACACCA CAGCTGCCTC 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCACACCA TTCAGAGCAA CAGCTGCCTC 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATC ACAAACTGCA GACTTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATC ACAAACTGCA GACTTCCATG 6421 GGCACACTGC GGGCCTCCAT CTCCGTGGAA CGCCAGAGAC CATCTTATCA CAAACTGCA CAGCTTGCG 6421 ACAGTTGCTT TCCAGCAAA GGCCAACAG CGCCAGATC CCCAGAGAAC CAGCTTCCAGGCA 6441 CAGATTAC TGTTCTTATT TGCCCCAG CCCAGAGACC CTCCCCTGC CCAAAATTCCA 6451 ACAGTTGCTT TTCAGCATGA CGCCAAGAGACC CTCCCTGCC CCAAAATTCCA 6461 AGGACAACT ATTTCATTAT TGCCCCCAG CCTGCCCTCC CCCAAGGACT CCCCAGGATT CCCAGCATG CCTCCCTTCCAGCTT CCCAGGATT 6461 AGGACAACTT ATGTCCTCC GAGAGAGACCC CTCCCCTGC CCAAAATTCCAC 661 AAATGAGATT CTTCTTTATT TGCCCCCAG GAGACTACC CTCCCCTGC CCCAAACTCC 661 AGGACAACTT CTCTCATCTCAG GAGACGACC C	534	11	GTCCTTCCCT	TGTGACCGCT	GAGGGGTAAC	ACCCTCTTTC	CACTTTTTTTT	CACCCCCCAC
5461 CCCCAAGTGG AGTGGCTGGG CTGGCTCAAC ACCATCCAGC CCCCCTTCT CTGGGTGCTG 5521 TTCGTGCTGG CCACCCTAGA GAACATCTTT GTCCTCAGCGG TCTTCTGCCT GCACAAGAGC 5581 AGCTGCACGG TGGCAGAGAT CTACCTGGGG AACCTGGCCG CAGCAAGACT GATCCTGGCC 5641 TGCGGGCTGC CCTTCTGGGC CATCACCACT TCCAACAACT TGACTGGCT CTTTGGGGAG 5701 ACGCTCTGCC GCGTGGTAA TGCCATTATC TCCATCAACC TGTACAGCAG CATCTGTTC 5761 CTGATGCTGG TGAGCATCGA CCGCTACCTG GCCCTGGTGA AAACCATGTC CATGGGCCGG 5821 ATGCGCGCG TGCGCTGGGC CAAGCTCTAC AGCTTGGTGA TCTGGGGGGT TACGCTGCTC 5881 CTGAGCTCAC CCATCCTGGC CAAGCTCTAC AGCTTTGGTGA TCTGGGGGTG TACGCTGCTC 5881 CTGAGCTCAC CCATCCTGGT GTTCCGGACC ATGAAGGAGT ACAGCGATGA GGGCACAAC 5941 GTCACCGCTT GTGTCATCAG CTACCCATCC CTCATCTGGG AAGTGTTCAC CAACATGCTC 6001 CTGAATGTCG TGGGCTACAA CGAGATGCAG AAGTTCAAGA AGATGTTCAC CAACATGCTC 6001 CTGAATGTCG TGGGCTACAA CGAGATGCAG AAGTTCAAGA AGATCCAGAC GAGAGGAGG 6121 GCCACGGTC TAGTCCTGGT TGTGCTGCT CTATCCAGC AGAGTGCAGAC 6121 GCCACGGTC TAGTCCTGGT TGTGCTGCT CTATTCATCA TCTGCTGGCT GCCCTTCCAG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCC CTCTGCACAC AGACTCCTCCAG 6241 CGCATCATCA ATGTAATCAC ACAGATCGCC CTCGCATCC CTCTCAGCAA CAGCTCGCTC 6301 AACCCACTGG TGTACCTGAT CGTGGGCAAGA CGCTTCCAGAA CAGCTCGCTC 6301 AACCCACTGG GCCACAAGAG GGGCTTCAGG TCAGAACCCA TCCAGCAA CAGCTGCCTC 6301 AACCCACTGC GGACCTCAC CCTCCGTGGAA CGCCTCCAGAACGAC GCCAACATGC 6421 GGCACACTGC GGACCTCAC CCTCCGTGGAA CGCCAACCCA TTCAGATGAA CAGCTCGCTC 6421 GGCACACTGC GGACCTCAC CCTCCGTGGAA CGCCAGATCT ACAAACTCTAG GGACTGACC 6421 GGCACACTGC GGACCTCAC CCTCCGTGGA CGCCAGATCA CGCCAGATCA CACAATTCAC 6421 GGCACACTGC GGCCCACGAAGG GCCTCCAGGAA CGCCAGATTC ACAAACTCCA GGACTGCC 6421 ACAGCATTAC TTCAGCAAG CGCCAGATC CCCAAGGACC CCTACTCAGCAA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGAGAA CGCCAGATTC ACAAACTCCA GGACTTCAC 6421 ACAGCATTAC TTCAGCAA CGCCAGAGAA CCCCAGAGAAC CCCAAGGACT CCAAGGACT 6421 ACAGCATTAC TGTCTTTATT TGCCCACA CGCCACAC CCTCCTCCCTCC CCAAGAACAC 6441 ACAGCAATTA TTCAGCAA CGCCAGATGA CCCCAGGAGG CCTCCTCCTC CCCAGGAGG 6441 CTGCCCCACA AAGACAACTT TTCCCCCAC CCTGCTCC CCCAGGAGG CCTCTCCTCCCTCCCCAGGA 6441 CTGCCCCACA AAGACAACTT AGACTCAA GGACACTCAA A	540)1	ATGCTCAATG	TCACCTTGCA	AGGGCCCACT	CTTAACGGGA	CACTITCTI	CAGCGACAAATCC
5521 TTCGTGCTGG CCACCCTAGA GAACATCTTT GTCCTCAGCG TCTTCTGCCT GCACAAGAGC 5581 AGCTGCACGG TGGCACAGAT CTACCTGGGG AACCTGGCCC CAGCAGACCT GATCCTGGCC 5641 TGCGGGCTGC CCTTCTGGGC CATCACCATC TCCAACAACT TCGACTGGCT CTTTGGGGAG 5701 ACGCTCTGCC GCGTGGTGAA TGCCATTATC TCCATGAACC TGTACAGCAG CATCTGTTTC 5761 CTGATGCTGG TGAGCATCGA CCGCTACCTG GCCCTGGTGA AAACCCATGTC CATCGGCCGG 5821 ATGCGCGGCG TGCGCTGGC CAAGCTCTAC AGCTTGGTGA TCTGGGGGTG TACGCTGCTC 5881 CTGAGCTCAC CCATGCTGGT GTTCCGGACC ATGAAGGAGT ACAGCGATGA GGGCCACAAC 5941 GTCACCGCTT TGGGCTTCCT GCTCCCTCGACC AGCTTATCA CCTCTCTCCAC 6001 CTGAATGTCG TGGGCTTCCT GCTGCCCCTG AGGTCCATCA CCTCTCTCAC GAACACTCTC 6010 CTGAATGTCG TGGGCTTCCT GCTGCCCCTG AGGTCCATCA CCTCTCTCAC GAACACGCGATCA 6061 ATGCAGGTGC TGGCCTTCCT GCTGCCCCTG AGGTCCATCA CCTCTCCAC GATGCAGACC 6121 GCCACGGTGC TAGTCCTGT TGTGCTGCT CTATCATCA CCTCCTGCAC GAGGAGGAG 6121 GCCACGGTGC TAGTCCTGT TGTGCTGCT CTATCATCA TCTGCTGGCT GCCCTTCCAG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCC CTCGGCATCC TCTCCAGCTG CCAGGAGGAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTTCATGG CCTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAC CGTGGGCAGG TCCATCAGCAA CAGCTGCCTC 6361 CAGGGAGTGT GCCAGAAAGG GGCCTCCAG TCCTCCAGG TGCACACG GGACCTCCTC 6421 GGCACACTGC GGACCTCCAT CTCCCTGGGAA CAGACCCA TTCAGATGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCCTGGGAA CGCCTTCCGAA AGAACTCCTTG GGAGCTGTAC 6421 GGCACACTGC GGACCTCCAT CTCCCTGGAA CGCCTTCCGAA AGAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCCTGGAA CGCCAGAACCC TCCAGACAG GAACTCCATG 6421 ACACTTGCTT TTCAGCATGG GCCCAGGAAT CCCAGGAATC CAAAACTGCA GGACTCGGCA 6481 GGGAGCAGC AGGGACAA CGCCAGGAAT CCCAGGAATC CAAAACTGCA GGACTTGGGC 641 ACACTTGCTT TTCAGCATGG GCCCAGGAAT CCCAGGACA CCCAGGACAC CCAGACAC CCAGGACTC CCCAGGACTC CCCAGGACTC AAGACCACTG CCCACGCACG CCCCCCCCCC	546	51	CCCCAAGTGG	AGTGGCTGGG	CTGGCTCAAC	ACCATCCAGC	CCCCCTTCCT	CTCCCTCCTC
5581 AGCTGCAGGG TGGCAGAGAT CTACCTGGGG AACCTGGCCG CAGCAGACCT GATCCTGGCC 5641 TGCGGGCTGC CCTTCTGGGC CATCACCATC TCCAACAACT TCGACTGGCT CTTTTGGGAG 5701 ACGCTCTGCC GCGTGGTAA TGCCATTATC TCCATGAACC TGCACTGGCT CTTTTGGGAG 5701 ACGCTCTGCC TGAGCATCAC CCGCTACCTG CCCTGGTGA AAACCATGTC CATGGGCCGG 5821 ATGCGCGGCG TGCGCTGGC CAAGCTCTAC AGCTTGGTGA TCTGGGGGTG TACGGCTGGCC 5881 CTGAGCTCAC CCATGCTGGT GTTCCGGACC ATGAGGAGT ACAGCGATGA GGGCCACAAC 5941 GTCACCGCTT GGGCTTCCT GCTGCCCCTG ATGAGGAGT ACAGCGATGA GGGCCACAAC 6001 CTGAATGTCG TGGGCTTCCT GCTGCCCCTG AGTGTCACAGA GAGTCCAGC GAGGAGGAGG 6121 GCCACGGTGC TACGCGACCA CGAGATGCAG AAGTCCAGAC GAGGAGGAGG 6121 GCCACGGTGC TACTCGGT TGTGCTGCCC TGTTCATCAGCA GAGTCCAGAC GAGGAGGAGG 6121 GCCACGGTGC TACTCGGT TGTGCTGCCC TCTTCATCAGC ACACTCGCCC 6301 AACCCACTG TCCTGGATAC GCTGCATCC CTCTCTCAGC GAGCAGAGG 6241 CGCATCATCG ATGAACACC ACAGATCCCC TCCTCAGGAA CAGATCCAGC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG CCTTCCAGG 6421 GGCACACTGC TGTACGTGAT CTCTGGGACAA CAGATCCCA 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCCAGCAAA CAGATCCCA 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCCAGCAAACCCA TTCAGAGGA GAACTCCATG 6421 GGCACACTGC GGCACCACAA CGCCAGCAGG CCTGCTGGA ACAAACTGCA GGACTTCCATG 6421 GGCACACTGC GCCAGCAAA CGCCAGCAGG CCTGCTGGA ACAAACTGCA GGACTTCCATG 6421 GGCACACTGC GCCAGCAAA CGCCAGCAGG CCTGCTGGA ACAAACTGCA GGACTTCCATG 6421 GGCACACTGC TTCAGGAAAG CGCCAGCAGG CCTGCTGTGA ATTTGTGTAA GGATTGAGGG 6541 ACAGTTGCT TTCAGCATAG GCCCAGCAGG CCTGCTGTGA ACAAACTGCA GGACTTCCATG 6661 AAGAGACATT TTCAGCATGG GCCCAGGAAC CCAAGACCCA CCAAGACCCA 6721 ACAGCATTAC TGTTCTTATT TGCTGCACA CCTGAGCCAC CCAGGACT CAAAATCACA 6721 ACAGCATTAC TGTTCTTATT TGCTGCACA CCTGAGCCAG CCAAGGACT CAAAATCACA 6721 ACAGCATTAC TGTTCTTATT TGCTGCACA CCTGAGCCAG CCTGCTCTT CCCAGGAGTG 6721 ACAGCATTAC TGTTCTTATA TAAAGGTTAA GCCCTGAGGG GTCCTGATA ACAACCTGGA 6721 ACAGCAATTT CTTGCATTAA TAAAGGTTAA GCCCTGAGGG GTCC	552	21	TTCGTGCTGG	CCACCCTAGA	GAACATCTTT	GTCCTCAGCG	TCTTCTGCCT	GCACAAGAGC
5641 TGCGGGCTGC CCTTCTGGGC CATCACCATC TCCAACAACT TCGACTGGCT CTTTGGGGAG 5701 ACGCTCTGCC GCGTGGTGAA TGCCATTATC TCCATGAACC TGTACAGCAG CATCTGTTC 5761 CTGATGCTGG TGAGCATCGA CCGCTACCTG GCCCTGGTGA AAACCATGTC CATGGGCCGG 5821 ATGCGCGCGG TGCGCTGGGC CAAGCTCTAC AGCTTGGTA ACACCAGTG TACGCTGCTC 5881 CTGAGCTCAC CCATGCTGGT GTTCCGGACC ATGAAGGAGT ACAGCGATGA GGGCCACAAC 5941 GTCACCGCTT GTGTCATCAG CTACCCATCC CTCATCTGGG AACTGTTCAC CAACATGCTC 6001 CTGAATGTCG TGGGCTCCT GCTGCCCCTG AGTGTCATCA CCTTCTGCAC GATGCAGATC 6061 ATGCAGGTGC TGCGGAACAA CGAGATGCAG AAGTTCAAGA GAATCCAGAC GGAGAGGAGG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCTG CTATTCATCA TCTGCTGGCT GCCCTTCCAG 6241 CGCACCATC TCCTGGATAC ACAGATCGCC CTCGCATCC CTCCAGCTG CCCAGCAGAG 6241 CGCACCATCG ATGTAATCAC ACAGATCGCC TCCTTCAAGG CCTACCAGCA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCGAG CCTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCGAA AGAAGTCTTG GGAGGGGG 6241 CGGGACCACTG GCCAGAAAGG GGGCTGCAGG TCCAGCAA AGAAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAAACCCA TTCAGATGGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGAATC ACAAACTGCA GGACTGGCCA 6421 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGGA ACAAACTGCA GGACTTGGGGA 6421 ACAGTTGCTT TTCAGCATGG GCCCAGGAGT CCAAGGAGAC CACCATGGGCA 6421 ACAGTTGCTT TTCAGCATGG GCCCAGAGAA CGCCAGGAGA CGCCAGAATC CCAAGGACCA CCAAGGACCA CCCAGCACAG GCCCAGGAAT CCCAGCACAG CACCTTGGGG 6541 ACAGTTGCTT TTCAGCATGA TGCCAGCAG CCCAAGGACC CCAAGGACC CCAAGTTTTGC 6661 AGGGACCATC GGGGGCAGG AGGGGGTGAAC CCTGCCCTGC	558	31	AGCTGCACGG	TGGCAGAGAT	CTACCTGGGG	AACCTGGCCG	CAGCAGACCT	GATCCTGGCC
5701 ACGCTCTGCC GCGTGGTGAA TGCCATTATC TCCATGAACC TGTACAGCAG CATCTGTTTC 5761 CTGATGCTGG TGAGCATCGA CCGCTACCTG GCCCTGGTGA AAACCATGTC CATGGGCCGG 5821 ATGCGCGGCG TGCGCTGGGC CAAGCTCTAC AGCTTGGTGA TCTGGGGGTG TACGCTGCTC 5881 CTGAGCTCAC CCATGCTGGT GTTCCGGACC ATGAAGGAGT ACAGCGATGA GGGCCACAAC 5941 GTCACCGCTT GTGCCATCG CTACCCATCC CTCATCTGGG AAGTGTTCAC CAACATGCTC 6001 CTGAATGTCC TGGGCTTCCT GCTGCCCCTG AGTGTCATCA CCATCTCACCATCC 6061 ATGCAGGTGC TGGGCTTCCT GCTGCCCCTG AGTGTCATCA CCTTCTCACC GATGCAGATC 6061 ATGCAGGTGC TGGGCAACAA CGACATGCAG AAGTTCAAGG AGATCCCAGC GGAGAGGAGG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCT CTATTCATCA TCTGCTGGCT GCCCTTCCAG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCC CTCGGCATCC TCTCCAGCTG CCAGGACGAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTTCATGG CCTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCGAA AGAAGTCTTG GGAGGGGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCACAGTGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGAACCCA TTCACAGTGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAACTGCA GGACTGGGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGGAG CGCCAGAATC CAAACTGCA GGACTGGGGCA 6541 ACAGTTGGTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA GGACTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAAT CCTGCCCTGC	564	11	TGCGGGCTGC	CCTTCTGGGC	CATCACCATC	TCCAACAACT	TCGACTGGCT	CTTTGGGGAG
5761 CTGATGCTGG TGAGCATCGA CCGCTACCTG GCCCTGGTGA AAACCATGTC CATGGGCCGG 5821 ATGGGCGGGC TGCGCTGGGC CAAGCTCTAC AGCTTGGTGA TCTGGGGGTG TACGCTGCTC 5881 CTGAGCTCAC CCATGCTGGT GTTCCGGACC ATGAAGGAGT ACAGCGATGA GGGCCACAAC 5941 GTCACCGCTT GTGCATCACG CTACCCATCC CTCATCTGGA AAGTGTCAC CAACATGCTC 6001 CTGAATGTCG TGGGCTTCCT GCTGCCCCTG AGTGCACTAC CTCATCTGGA CAACATGCTC 6061 ATGCAGGTGC TGCGGAACAA CGAGATGCAG AAGTTCAAGGA AGATCCAGAC GGAGAGGAGG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCTG CTATTCATCA TCTGCTGGCT GCCCTTCCAG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCCC CTCGGCATCC TCTCCAGCTG CCAGGACGAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC CTCCTCATG CCTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCAG AGAGTCTTG GGAGGAGGAG 6421 GGCAACCTGC GCCAGAAAGG GGGCTGCAGG TCCTCCAGA AGAAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGA GAACTCCATG 6421 GGCAACCTGC GGACCTCCAT CTCCGTGGAA CGCCAGATC ACAAACTGCA GGACTGGGCA 6481 GGGAACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAAACTGCA GGACTTGGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAGA CCCCAGAGTC CACAAACTGCA GGACTTGGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CTCGCCCTGC CCAATTTTGC 6661 AGGGAGCATG GCTGTGAGA TGGGGTAAC CCCAGGAGA CACCTTGGC 6661 AGGGAGCATG GCTGTGAGA TGGGGTAAC CCTGACCAG CCAAGACCT CCAAAATCACA 6721 ACAGCATTAC TGTTCTTATT TGCTGCCACA CCTGAGCCAG CCTGCCTCT CCCAGGAGTG 6781 GAGGAGGCCT GGGGCAGGG AGAGGAGTG CTGAGCCAG CCTGCCTCT CCCAGGAGTG 6781 GAGGAGGCCT GGGGGCAGGG AGAGGAGTG CTGAGCCAG CCTGCCTCT CCCAGGAGTG 6781 GAGGAGGCCT GGGGGCAGGG AGAGGAGTG CTGAGCCAG CCTGCCTCT CCCAGGAGTG 6781 GAGGAGACTT CTTTATT TGCTGCCCACA CCTGAGCCAG CCTGCCTCTT CCCAGGAGTG 6781 GAGGAGACTT TTTTTATT TGCCTCCAG GAGAACTTC CTCCCGTGT TTCTCCGTCC 6841 CTGCCCAGC AAGACACTT AGATCTCAG GAGAACTTC ACAACCTGGA 6961 AGGACAATTT CTTTATT TTGCCCTGG TTTCTTTATT CTATTCAGCT AGAACCTTGA 6961 AGGACAATTT CTTTATT TTGCCCTGG TTTCTTTATT CTATTCAGCT AGAACCTTGA 6961 AGGACAATTT TTATGGCTC CCTCACTGGT TTCCTTTATT GAGCACTGTA ACAACCTGGA 7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCACAGAGT 7081 CAATAAGCAC ATATTGAGCA CTTGCTTTTA AGGCACTAA AGG	570)1	ACGCTCTGCC	GCGTGGTGAA	TGCCATTATC	TCCATGAACC	TGTACAGCAG	CATCTGTTTC
5821 ATGCGCGGCG TGCGCTGGGC CAAGCTCTAC AGCTTGGTGA TCTGGGGGTG TACGCTGCTC 5881 CTGAGCTCAC CCATGCTGGT GTTCCGGACC ATGAAGGAGT ACAGCGATGA GGGCCACAAC 5941 GTCACCGCTT GTGTCATCAG CTACCCATCC CTCATCTGGG AAGTGTTCAC CAACATGCTC 6001 CTGAATGTCG TGGGCTTCCT GCTGCCCCTG AGTGTCATCA CCTTCTGCAC GATGCAGATC 6061 ATGCAGGTGC TGCGGAACAA CGAGATGCAG AAGTTCAAGG AGATCCAGAC GGAGAGGAGG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCTC CTATCAGG AGATCCAGAC GGAGAGGAGG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCGC CTCCTCCAGCTG CCCATCCAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTTCATGG CTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACTGATC CTGGGCAAG CGCTTCCCGAA AGAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG CGCTTCCCGAA AGAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCTCCCGAA AGAACTCTA GGAGGTGTAC 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCTGCCAA AGAACTCCATG GGAGGTGTAC 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATC ACAAACTGCA GGACTGGGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG CCCAGATTC ACAAACTGCA GGACTGGGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG CCCAGGAGT CACAAACTGCA GGACTTGGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT CCCAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	57€	51	CTGATGCTGG	TGAGCATCGA	CCGCTACCTG	GCCCTGGTGA	AAACCATGTC	CATGGGCCGG
5881 CTGAGCTCAC CCATGCTGGT GTTCCGGACC ATGAAGGAGT ACAGCGATGA GGGCCACAAC 5941 GTCACCGCTT GTGTCATCAG CTACCCATCC CTCATCTGGG AAGTGTTCAC CAACATGCTC 6001 CTGAATGTG TGGGCTTCCT GCTGCCCCTG AGTGTCATCA CCTTCTGCAC GATGCAGATC 6061 ATGCAGGTGC TGCGGAACAA CGAGATGCAG AAGTTCAAGG AGATCCAGAC GGAGAGGAGG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCTG CTATTCATCA TCTGCTGGCT GCCCTTCCAG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCC CTCGCATCC TCCCAGGACGAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTCAGAC CCAAGCAGAC 6301 AACCCACTGG TGTAACGTAC CTCGGGAAC CGCTTCCGAA CAGATCGCTC 6301 AACCCACTGG GCCAGAAAGG GGGCTGCAGG TCAGGAACCCA TTCAGATGA CAGCTGCCTC 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCCAGAACCCA TTCAGATGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCCAGATC ACAAACTGCA GGACTGCGGCA 6481 GGGAGCAGA AGTGAGCAAA CGCCAGCAG GCCCAGGAGA CATCTATGCA GGACTTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCC GAGACTAATT CCTGCCCTGC	582	21	ATGCGCGGCG	TGCGCTGGGC	CAAGCTCTAC	AGCTTGGTGA	TCTGGGGGTG	TACGCTGCTC
5941 GTCACCGCTT GTGTCATCAG CTACCCATCC CTCATCTGGG AAGTGTTCAC CAACATGCTC 6001 CTGAATGTCG TGGGCTTCCT GCTGCCCCTG AGTGTCATCA CCTTCTGCAC GATGCAGATC 6061 ATGCAGGTGC TGCGGAACAA CGAGATGCAG AAGTTCAAGG AGATCCAGAC GGAGAGGAGG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCTG CTATTCATCA TCTGCTGGCT GCCCTTCCAG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCC CTCGGCATCC TCTCCAGCTG CCAGGACGAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTTCATG CCTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCGAA AGAAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATC ACAAACTGCA GGACTGCGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGTAA ATTTGTGTAA GGATTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGAGAAC CAACCTTGGG 6601 AAATGAGTTG ATGTCTCGG TAAAACACCC GAGCATAATT CCTGCCCTGC	588	31	CTGAGCTCAC	CCATGCTGGT	GTTCCGGACC	ATGAAGGAGT	ACAGCGATGA	GGGCCACAAC
6001 CTGAATGTCG TGGGCTTCCT GCTGCCCCTG AGTGTCATCA CCTTCTGCAC GATGCAGATC 6061 ATGCAGGTGC TGCGGAACAA CGAGATGCAG AAGTTCAAGG AGATCCAGAC GGAGAGGAGG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCTG CTATTCATCA TCTGCTGGCT GCCCTTCCAG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCGC CTCGGCATCC TCTCCAGCTG CCAGGACGAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTTCATGG CCTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCGAA AGAAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAAACTGCA GGACTGGCA 6481 GGGAGCAGA AGTGAGCAAA CGCCAGCAGG GCTGCTGTGA ATTTGTTAA GGATTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAAT CCTGCCCTGC	594	1	GTCACCGCTT	GTGTCATCAG	CTACCCATCC	CTCATCTGGG	AAGTGTTCAC	CAACATGCTC
6061 ATGCAGGTGC TGCGGAACAA CGAGATGCAG AAGTTCAAGG AGATCCAGAC GGAGAGGAGG 6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCTG CTATTCATCA TCTGCTGGCT GCCCTTCCAG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCGC CTCGGCATCC TCTCCAGCTG CCAGGACGAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTTCATGG CCTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCGAA AGAAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAAACTGCA GGACTGGGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGTGA ATTTGTGTAA GGATTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	600	1	CTGAATGTCG	TGGGCTTCCT	GCTGCCCCTG	AGTGTCATCA	CCTTCTGCAC	GATGCAGATC
6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCTG CTATTCATCA TCTGCTGGCT GCCCTTCCAG 6181 ATCAGCACCT TCCTGGATAC GCTGCATCGC CTCGGCATCC TCTCCAGCTG CCAGGACGAG 6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTTCATGG CCTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCGAA AGAAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAAACTGCA GGACTGGGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGTGA ATTTGTGTAA GGATTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	606	51	ATGCAGGTGC	TGCGGAACAA	CGAGATGCAG	AAGTTCAAGG	AGATCCAGAC	GGAGAGGAGG
6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTTCATGG CCTACAGCAA CAGCTGCCTC 6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCGAA AGAAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAAACTGCA GGACTGGGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGTGA ATTTGTGTAA GGATTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	612	21	GCCACGGTGC	TAGTCCTGGT	TGTGCTGCTG	CTATTCATCA	TCTGCTGGCT	GCCCTTCCAG
6301 AACCCACTGG TGTACGTGAT CGTGGGCAAG CGCTTCCGAA AGAAGTCTTG GGAGGTGTAC 6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAAACTGCA GGACTGGGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGTGA ATTTGTGTAA GGATTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	618	1	ATCAGCACCT	TCCTGGATAC	GCTGCATCGC	CTCGGCATCC	TCTCCAGCTG	CCAGGACGAG
6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGGA GAACTCCATG 6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAAACTGCA GGACTGGGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGTGA ATTTGTGTAA GGATTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	624	1	CGCATCATCG	ATGTAATCAC	ACAGATCGCC	TCCTTCATGG	CCTACAGCAA	CAGCTGCCTC
6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAAACTGCA GGACTGGGCA 6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGTGA ATTTGTGTAA GGATTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	630	1	AACCCACTGG	TGTACGTGAT	CGTGGGCAAG	CGCTTCCGAA	AGAAGTCTTG	GGAGGTGTAC
6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGTGA ATTTGTGTAA GGATTGAGGG 6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	636	1	CAGGGAGTGT	GCCAGAAAGG	GGGCTGCAGG	TCAGAACCCA	TTCAGATGGA	GAACTCCATG
6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG 6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	642	1	GGCACACTGC	GGACCTCCAT	CTCCGTGGAA	CGCCAGATTC	ACAAACTGCA	GGACTGGGCA
6601 AAATGAGTTG ATGTCTCCGG TAAAACACCG GAGACTAATT CCTGCCCTGC	648	1	GGGAGCAGAC	AGTGAGCAAA	CGCCAGCAGG	GCTGCTGTGA	ATTTGTGTAA	GGATTGAGGG
6661 AGGGAGCATG GCTGTGAGGA TGGGGTGAAC TCACGCACAG CCAAGGACTC CAAAATCACA 6721 ACAGCATTAC TGTTCTTATT TGCTGCCACA CCTGAGCCAG CCTGCTCCTT CCCAGGAGTG 6781 GAGGAGGCCT GGGGGCAGGG AGAGGAGTGA CTGAGCTTCC CTCCCGTGTG TTCTCCGTCC 6841 CTGCCCCAGC AAGACAACTT AGATCTCCAG GAGAACTGCC ATCCAGCTTT GGTGCAATGG 6901 CTGAGTGCAC AAGTGAGTTG TTGCCCTGGG TTTCTTTAAT CTATTCAGCT AGAACTTTGA 6961 AGGACAATTT CTTGCATTAA TAAAGGTTAA GCCCTGAGGG GTCCCTGATA ACAACCTGGA 7021 GACCAGGATT TTATGGCTCC CCTCACTGAT GGACAAGGAG GTCTGTGCCA AAGAAGAATC 7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCAAGAGGG 7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT	654	1	ACAGTTGCTT	TTCAGCATGG	GCCCAGGAAT	GCCAAGGAGA	CATCTATGCA	CGACCTTGGG
6721 ACAGCATTAC TGTTCTTATT TGCTGCCACA CCTGAGCCAG CCTGCTCCTT CCCAGGAGTG 6781 GAGGAGGCCT GGGGGCAGGG AGAGGAGTGA CTGAGCTTCC CTCCCGTGTG TTCTCCGTCC 6841 CTGCCCCAGC AAGACAACTT AGATCTCCAG GAGAACTGCC ATCCAGCTTT GGTGCAATGG 6901 CTGAGTGCAC AAGTGAGTTG TTGCCCTGGG TTTCTTTAAT CTATTCAGCT AGAACTTTGA 6961 AGGACAATTT CTTGCATTAA TAAAGGTTAA GCCCTGAGGG GTCCCTGATA ACAACCTGGA 7021 GACCAGGATT TTATGGCTCC CCTCACTGAT GGACAAGGAG GTCTGTGCCA AAGAAGAATC 7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCAAGAGGG 7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT	660	1	AAATGAGTTG	ATGTCTCCGG	TAAAACACCG	GAGACTAATT	CCTGCCCTGC	CCAATTTTGC
6781 GAGGAGGCCT GGGGGCAGGG AGAGGAGTGA CTGAGCTTCC CTCCCGTGTG TTCTCCGTCC 6841 CTGCCCCAGC AAGACAACTT AGATCTCCAG GAGAACTGCC ATCCAGCTTT GGTGCAATGG 6901 CTGAGTGCAC AAGTGAGTTG TTGCCCTGGG TTTCTTTAAT CTATTCAGCT AGAACTTTGA 6961 AGGACAATTT CTTGCATTAA TAAAGGTTAA GCCCTGAGGG GTCCCTGATA ACAACCTGGA 7021 GACCAGGATT TTATGGCTCC CCTCACTGAT GGACAAGGAG GTCTGTGCCA AAGAAGAATC 7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCAAGAGGG 7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT	666	1	AGGGAGCATG	GCTGTGAGGA	TGGGGTGAAC	TCACGCACAG	CCAAGGACTC	CAAAATCACA
6841 CTGCCCCAGC AAGACAACTT AGATCTCCAG GAGAACTGCC ATCCAGCTTT GGTGCAATGG 6901 CTGAGTGCAC AAGTGAGTTG TTGCCCTGGG TTTCTTTAAT CTATTCAGCT AGAACTTTGA 6961 AGGACAATTT CTTGCATTAA TAAAGGTTAA GCCCTGAGGG GTCCCTGATA ACAACCTGGA 7021 GACCAGGATT TTATGGCTCC CCTCACTGAT GGACAAGGAG GTCTGTGCCA AAGAAGAATC 7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCAAGAGGG 7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT	6/2	1	ACAGCATTAC	TGTTCTTATT	TGCTGCCACA	CCTGAGCCAG	CCTGCTCCTT	CCCAGGAGTG
6901 CTGAGTGCAC AAGTGAGTTG TTGCCCTGGG TTTCTTTAAT CTATTCAGCT AGAACTTTGA 6961 AGGACAATTT CTTGCATTAA TAAAGGTTAA GCCCTGAGGG GTCCCTGATA ACAACCTGGA 7021 GACCAGGATT TTATGGCTCC CCTCACTGAT GGACAAGGAG GTCTGTGCCA AAGAAGAATC 7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCAAGAGGG 7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT	678	1	GAGGAGGCCT	GGGGGCAGGG	AGAGGAGTGA	CTGAGCTTCC	CTCCCGTGTG	TTCTCCGTCC
6961 AGGACAATTT CTTGCATTAA TAAAGGTTAA GCCCTGAGGG GTCCCTGATA ACAACCTGGA 7021 GACCAGGATT TTATGGCTCC CCTCACTGAT GGACAAGGAG GTCTGTGCCA AAGAAGAATC 7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCAAGAGGG 7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT	684	1	CTGCCCCAGC	AAGACAACTT	AGATCTCCAG	GAGAACTGCC	ATCCAGCTTT	GGTGCAATGG
7021 GACCAGGATT TTATGGCTCC CCTCACTGAT GGACAAGGAG GTCTGTGCCA AAGAAGAATC 7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCAAGAGGG 7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT	690	1	CTGAGTGCAC	AAGTGAGTTG	TTGCCCTGGG	TTTCTTTAAT	CTATTCAGCT	AGAACTTTGA
7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCAAGAGGG 7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT	096	1 .	AGGACAATTT	CTTGCATTAA	TAAAGGTTAA	GCCCTGAGGG	GTCCCTGATA	ACAACCTGGA
7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT	702	1	GACCAGGATT	TTATGGCTCC	CCTCACTGAT	GGACAAGGAG	GTCTGTGCCA	AAGAAGAATC
7201 GGGCACTGCC ACCACCAGAA AGCTGTTCGA TGAGACGGTC GAGCAGGGTG CTGTGGGTGA	708	1	CAATAAGCAC	ATATTGAGCA	CTTGCTGTAT	ATGCAGTATT	GAGCACTGTA	GGCAAGAGGG
7201 GGGCACIGCC ACCACCAGAA AGCTGTTCGA TGAGACGGTC GAGCAGGGTG CTGTGGGTGA	720	1 ·	CCCCA CTCCC	AGGAGCCATC	TCCATCTTGA	AGGAACTCAA	AGACTCAAGT	GGGAACGACT
	120	Τ,	GGGCACTGCC	ACCACCAGAA	AGCTGTTCGA	TGAGACGGTC	GAGCAGGGTG	CTGTGGGTGA

7261 TATGGACAGC AGAAGGGGGA GCCAGGTTCC AGCTCACCAA TACTATTGCA CACCACCTGT 7321 CCTGCCTC

(2) INFORMATION FOR SEQ ID NO:2442:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2442:
- 1 GCCCTTCAAA GATGAGCTGT TCCCGCCGCC ACTCCAGCTC TGGCTTCTGG GCTCCGAGGA
- 61 GGGGTGGGGA CGGTGGTGAC GGTGGGGACA TCAGGCTGCC CCGCAGTACC AGGGAGCGAC
- 121 TGAAGTGCCC ATGCCGCTTG CTCCGGAGAA GGTGGGTGCC GGGCAGGGGC TGCTCCAGCC
- 181 GCCTCACCTC TGCTGGGAGG ACAAACTGTC CCAGCACAGA GGGAGGGAGG GAGGGCAGGC
- 241 AGCGGGGAGA AGTTTCCCTG TGGTCGTGGG GAGTT

(2) INFORMATION FOR SEQ ID NO: 2443:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1464 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2443:
- 1 GAGCTCTTCA ATATTTTAGT GAAAGCTATA GATGAGGCTC CATAGGGGAT AAAGCACAGA 61 CACACCTTTT CAGAGGGCTT GTGGACTCTG GGCAGCCTGT CCATAGACCT CTGTCCCCAA
- 121 CTGGCAAGTC AGGAAACTCC AGATTAAGGA GCCCCAATGT GGTTGAACAG CCAGGTGCAC
- 181 AGATGAGTCA ACCACACAGC CAGGCCAGGG AGGGCCTTCA CTCAAGAGCC TACAGCCAGT
- 241 TCACAGCCAA GCCAGGGCTA GCGCCAGGCC ACCCATAAAC TGATCTGAGA CTCTGTTTCC
- 301 CTGTCTCCAT GATGATGGGA TCAGGCTTGA TTGCTGGTTT GTAGGCTTGT TATGAATCAA 361 GTCACAGGGA AGAGGAGCTG ATGGGCTGGG GGGACGTCCT CTGGCCCTCC TGTCTCTTCC
- 421 CCAGATCCAC TGGGCCCACT CTTATCTGTT CTCTTCTGAA GGAAGGGTTT TAAGGCTTCA
- 481 AAAAAAAATG TTTTGAAAGT CCCTGCCCTT TCCAGCTCCT ACCGTCTCAG CCCTGGGAGT
- 541 GTAAAGTGCT GCAGATAGTT AGTAAGTCTT TGAGCAAAAC TGAGAAAGCC AGCCTGAGCC
- 601 TTGACATGGG AGAAACCTCC GCCATACATC TCCGAAGAAA CGGCCGCGTG TCTCAGGGGA 661 GCGCAAACAC CCGTACCCAG GAAACAGGAC AGCTTCTGCC ACTGTCGCCC TTGGGAGCCG
- 721 TACGTGGCAT GACAAAGAA TCCCAGGACT CCGCCTGCCC ACCTGGCCAC CCTCTGTTTA
- 781 CACCTTCCGC GTAAACGCCC ACTGTTTACA TCCAAAACTC AGACACAAAA TAACCACCTC
- 841 AAGAAGATAA ATAATGATAA GAAATAAATG TTACGCGAGG CAAATTTATT CACATGGGGC
- 901 TTCCCAGGCC ACTTTGTGGT CAGCCGGGAG GGACGTTTTT GCCGTCCCAC GACTCCAACG
- 961 GGCAGCCGGG CCTACGCAAA CATGGAAATC TTCCAAGAGC CTCCCTGGCC CCCAGGGCTC
- 1021 AGAGGGTGGC AGAGCGGAGA GCGAAGGTGG CCGCAGCCTT CCCGGCCCCA CAGCCAGCCT
- 1081 GGCTCCAGCT GGGCAGGAGT GCAGAGCTCA GCTGGAGGCG AGGGGGAAGT GCCCAGGAGG 1141 CTGATGACAT CACTACCCAG CCCTTCAAAG ATGAGCTGTT CCCGCCGCCA CTCCAGCTCT
- 1201 GGCTTCTGGG CTCCGAGGAG GGGTGGGGAC GGTGGTGACG GTGGGGACAT CAGGCTGCCC
- 1261 CGCAGTACCA GGGAGCGACT GAAGTGCCCA TGCCGCTTGC TCCGGAGAAG GTGGGTGCCG
- 1321 GGCAGGGGCT GCTCCAGCCG CCTCACCTCT GCTGGGAGGA CAAACTGTCC CAGCACAGAG
- 1381 GGAGGGAGGG AGGGCAGGCA GCGGGGAGAA GTTTCCCTGT GGTCGTGGGA AGTTGGGAAA
- 1441 AGTTCCCTTC CTTCCGGAGG GAGG

(2) INFORMATION FOR SEQ ID NO:2444:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2599 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2444:
 - 1 CAGATTCACA AACTGCAGGA CTGGGCAGGG AGCAGACAGT GAGCAAACGC CAGCAGGGCT
- 61 GCTGTGAATT TGTGTAAGGA TTGAGGGACA GTTGCTTTTC AGCATGGGCC CAGGAATGCC
- 121 AAGGAGACAT CTATGCACGA CCTTGGGAAA TGAGTTGATG TCTCCGGTAA AACACCGGAG
- 181 ACTAATTCCT GCCCTGCCCA ATTTTGCAGG GAGCATGGCT GTGAGGATGG GGTGAACTCA
- 241 CGCACAGCCA AGGACTCCAA AATCACAACA GCATTACTGT TCTTATTTGC TGCCACACCT 301 GAGCCAGCCT GCTCCTTCCC AGGAGTGGAG GAGGCCTGGG GGGAGGGAGA GGAGTGACTG
- 361 AGCTTCCCTC CCGTGTGTTC TCCGTCCCTG CCCCAGCAAG ACAACTTAGA TCTCCAGGAG



401						
	AACTGCCATC					
481				ACAATTTCTT		
541				CAGGATTTTA		
	CAAGGAGGTC					
661	01.0111110110	CACTGTAGGC	AAGACCCAAG	AAAGAGAAGG	AGCCATCTCC	ATCTTGAAGG
	AACTCAAAGA					
	GACGGTCGAG					
841				GTCCCTGCCT		
901	TGAAGTCGTT	GTGAGGGTTA	AAGGCAGTAA	CAGGTATAAA	GTACTTAGAA	AAGCAAAGGG
961				GACGTAACTG		
1021	AAAGACACTG	AGGTCTAGAA	ATAGCTCCGT	GGAGCAGAAT	CAGTATTGGG	AGCCGGTGGC
1081	GGTGTGAAGC	ACCAGTGTCT	GGCACACAGT	AGGTGCTCAT	TGGCTCCCTT	CCACCTGTCA
1141	TTCCCACCAC	CCTGAGGCCC	CAACCGCCAC	ACACACAGGA	GCATTTGGAG	AGAAGGCCAT
1201	GTCTTCAAAG	TCTGATTTGT	GATGAGGCAG	AGGAAGATAT	TTCTAATCGG	TCTTGCCCAG
	AGGATCACAG					GAGAGTGCAG
1321	GCCTGCTCAG					
1381				GAAGAGTGTG		
1441				TTCACTTGAT		
	GTTGGAGAGC					
	CCTGGAGAGG					
1621	AAAACCTGAG	CTAGAAGCTG	GAGGACTAGA	ACCTGGAGGG	CTGGAATCTG	AAGGGCTAGA
	ACCTGGAGGG					
1741	ACCTAGAAGG	GCTAGAACCT	GGAGGGCTGG	AATCTGGAGA	GCTAGAACCT	GGAGGGCTAG `
1801	AACCTGGAGG	GCTAGAACCT	AGAAGGGCTA	GAACCTGGAG	GGCTAGAACC	TGGCAGGTTA
1861	GAACCTAGAA	GGGCTAGAAC	CTGGAGAGCC	AGAACCTGGA	GGGCTAGAAC	CTGGAAGGGC
1921	TAGAACCTGT	AGAGCTAGAA	CATGGAGAGC	TAGAACCCGG	CAGGCTAGAA	CCTGGCAAGC
1981	TAGAACCTGG	AGGGAATGAA	CCTGGAGGGC	TAGAACCTGG	AGAATGAGAA	AAATTTACAT
2041	GGCAAAGAGC	CCATAAATCC	TGACCAATCC	AACTCTGAAT	TTTAAAGCAA	AAGCGTGAAA
2101	AAAAAGATTC	CCTCCTTACC	CCCAACCCAC	TCTTTTTTCC	CACCACCCAC	TCTCCTCTGC
2161	CTCAGTAAGT	ATCTGGAGGA	AGAAAACAGG	TGAAAGAAGA	AGTAAAAACC	ATTTAGTATT
2221	AGTATTAGAA	TGAAGTCAAA	CTGTGCCACA	CATGGTGAAT	GAAAAAAAA	AAAAAGAGGC
2281	TGTGTTTTGT	CACACAGGGC	AGTCATTCAG	CACCAGAGCA	CGTGATGGTC	TGAGACTCTC
2341	TTAGGAGCAG	AGCTCTGCCG	CAATGGCCAT	GTGGGGATCC	ACACCTGGTC	TGAGGGGCAA
2401						AAAGAACATC
2461				GTTGTAAACA		CACATCCAAA
2521	CGAGAAAATC					TGAGGTTTTT
	GCAAAAAAA					

(2) INFORMATION FOR SEQ ID NO:2445:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2445:
- 1 AAATGATAGA CCGTCAATAA TTTGTTAAAT GCTTTTTAAA ATGAATGCTT TAAGCCGGGT 61 GCAGTGCCTC ACATCTGTAA TCCCAGCACT TTGGAGCCGA GCGGGTGGAT TGTGTGAGGT 121 CAGGAGTTCG AGACCAACCT GGCCAACATG GCAAAACCTC ACTCTCTACC AAAAATACAA 181 AAATTAGCCA GGCATGGTGG CAGGCACCTG TGATCCCAGC TACTCAGGAG GCTGAGACAG 241 GAGAATCGCT TGAACCCGGG AGGCAAGGTT GCAGTGAGCC AAGATTACGC CATTGTACTC 301 CAGCCTGGGT GACAGAGAGA GACTCCGTCT CAAAAAAAAA AAAAAAAAA AAAAAATTAC 361 GCTTCAAACA CATGATCTCT CACCACTGTT GAATTTTCTT TCTATGAGCC CAGGAGGGCC 421 TCTCAGAGAG GAAAGCTCCT AGGTCTTCCT TTCCCTCTGC AAACTCCCTG CCTTGAAGGT 481 TCAGAAGGAC TGTGCGTGCT CGTTGCATCC TTTGCAAGTG TCCAAACCCT GATCCCAGCT 541 GTGCTTAGGG GTTCCTGCAA ACCTTTTCCA GGTGTTAATT ACCTCCCACT TCATTTCCTG 601 TTTACCAACT CAGCTTTTTG TTTTAGTGTG TTTGAATTCC CTGAACTGAC CGTTGTCTGA 661 TCTCCACCTC CCAACTGAAT TAGGGGAGCT GGGCTTCTGG AAACCCAGGT GCCGGGTGTT 721 GCAGAGTGGC TGAAAGCTGG GATGTGGCAG ATCCGTGGCT ACATTCATGC ACACACAC 781 ACCCACATAC CCACACATGC ACACACACA ACACACCGC ACTCACACAC TTGGACATGC 841 ATAGACCACA GCTTTCCACA CCCTTCCTAG ACAGGGGTCA CTTGGTATCC TGGAGAGAGT 901 GTGAAGTCCT GGAATGGAAA GAGGGGGGAT TAAGCCCCAC CTCTAGCCAT GGGACTGAGA 961 CAAGTCACCA CCAACCCATC TGCGCCTTGT TTACCTCCTC TGTGAGGCAA GCACAGAGCC

1021	CATGCCTGC	CCCCTGGATG	GGAGTGATGT	GAAACTTGAA	GGGCGGTCAG	AGCAAGGGTC
1081	GGGAATGGAA	A GGCCCTTGGG	AAAAAAGGCC	CTTTCAACTA	GGGGCACAGA	GGAGGCCCTG
1141	GGCTGAGAA	C TTGACAGCAC	CTTGTAATTG	GTAAGCCAAG	CCCGAAGGGA	CTGGAAATAC
1201	. TCAGATGTG	CTGTCTCCCT	TATTAGGTTC	AAAGTCCCTC	AAGACCCTGT	CTCCATCACA
1261	. GTGCTCCAGT	CCAGACCCCT	CCTCTGAGCT	CCAGACCCTG	CTGGACCCAA	CCAGCCCTAT
1321	. GGGGTCGCAT	CCCCACCTGC	CTGGAATTCT	CCAAAGAACC	TCCCCTTTAA	CAGTTCCAGC
1381	. CTTTAACAG	TCCAGTCTAA	ACACATGACC	TTTCTCCTCT	AAATCAGCCC	CCCATCTCTG
1441	. CCTTTGCAGO	G AGATGGAAGC	CATGACACCT	GCCTCGCCCC	TGTCCTCACC	CCATCCATGT
1501	. CCAATCAAGO	CACTAGGCATG	TCAGGTTTAC	CCTCTAAACT	CCTCTGGAAT	CCAGTCTCTC
1561	AGTCTCCATC	ATCCCAGGTC	GAAGCTAATG	GGCTAACTGG	TCCTTGCTTC	CACTCTACCC
1621	CCACTGCAGT	CCTGACTTCC	TGAGCAGCAG	CCAGGGCCTA	ATCGATATTC	ACACCAAGCG
1681	CCAACCTGAC	: TGAGATATCC	TCCTGCACCA	TCATCCCTCC	ACCCTGTTTA	GTTCTGCTCA
1741	CCCTCAGTGT	TCTCATCAAT	AATCCACTCC	CCTCACAGGC	GCGTTTGGGA	CCCCATGTTC
1801	TATGCTCTCA	A CAGGACCTTT	TGCTTGATTT	TTCACTGTAC	TTAGGTCAGT	TTGCAGTTAT
1861	TAAGTGACT	G AGCAATGTCT	GGCTTCTCCA	GTAGACTGTC	AGCTCCTAGC	CATTGTATAC
1921	CTAGCACCGC	TGTGTGGGAG	CACGTGACAA	ACGTCCAGTG	AGTCAGGGAC	TCAGCAGTCT
1981	CCATTTCTCC	GCCCTGCTGG	AGAATGCGTG	TATTTGGCAA	TCCCCAGCCC	CTGTGCCATC
2041	TAACCATCTT	TTCTTCTCTG	TTCAGCCCAG	GTGTGGCCTC	ACTCACATCC	CACTCTGAGT
2101	CCAAATGTTC	TCTCCCTGGA	AGATATCAAT	GTTTCTGTCT	GTTCGTGAGG	ACTCCGTGCC
2161	CACCACGGCC	TCTTTCAGGT	GAGTCAAAGG	GATTCCTCAG	TTCACTAGTT	AGGGGAGGTG
2221	GGCAGACACC	CTGGAGAACT	CCCTGGAAAG	CTCAACTCTC	ATGCCCCGGA	CAACAGTTGA
2281	AGGAACCATG	GTGATGTTAA	GCCCAAAGAC	AAAACCTCTC	AGGTGTCCAA	GTCCCTGTTG
2341	GAATCTTGGG	AGCAGAGGGA	ATGTTCTGTG	GTCTAGAGGA	AGAGGGGCTC	AGGGAGGAGA
2401	AGGGCACATT	CCTGGTTGTT	ATATGTTTCT	ATCTATCCCA	GATGAACTTG	GAAGTGAAGG
2461	GAAGAGAGTT	AAACATTAAA	GTAAATACCC	AGTGGATCAG	ACAGCAATGT	GCCAGATTGC
2521	CTTGGAAACA	AAATATCTCC	AACACATGGC	TGACATTTGG	TGGGAGATCA	GAACACCCTA
2581	AAGAGAGAAT	TTAAGGGGAG	GGGGAGGAGG	ACCTGAGCCA	GAGTAGAAGC	AGAGGATAGG
2641	GAGATCTGTT	CTTGGGGACA	GCATTTGCAA	GAAACAAGGC	TGAGGGGTCC	ACTCCAACCT
2701	CTCCACCCTG	CTGCAGGTGC	TGCCTATGAT	GAAGATGAGC	AGATGGCCAT	CTCAGCTGGG
2/61	GCCACAGTGC	ACTGGACCTA	TAGTTTCCAA	TTCCGCACTC	AGCAGGCATC	TTTCTGATGA
2021	TCCGATGGCT	TCTCAGAGCC	AGGGATGGGC	CAGGATCCAT	CCCCTTGGCT	ACTGTCTTGC
2001	1 GAGAAATTT	ATAAGCAGCA	TCTGGTGCTA	TACTTTGGTC	TCTAGTGAGT	TAGCTCATGA
3001	AMCCCCCTTCA	ACTCTCCAAG	CCAGGGGTAT	GCAGGAAATG	GGTTTTCTGT	AGCTACAGAA
3061	CCAAACCACC	GGGTTGGACC	AAGGGACTAC	CCAGGGGAAG	TCTTACCTTC	AGAGGACTCT
3121	CTCTCTTCCA	CTGCAAGTTT	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	AGAATTCAGA	GCCCAGTAGA	GACAGCTTAT
3181	CACCADANCC	AGATGTCTGG GTAACTGGGG	CCACACCAMC	GGAAGATTCA	AAGGCTAGGA	AACCAGGAGC
3241	ATGTGGCTGC	TTGAGTATCC	TCACATCCCC	CACTTTCAAG	GTGGCAAGTT	GGTTCCCCCC
3301	AGGCCAAGAA	AGATGCTGCA	AACATCTTAT	CACCEACCCE	CACAAAGTAA	GCAATGCAAA
3361	TGCCACCATT	AGTAAGAAGT	CCACCCCACC	TCCACCACAA	CAGAAATCAC	ACACCATCCC
3421	TTGAAATGAA	GAATATCAAG	TAATTCCCCC	CCCARAGCAA	GAGGAAGCAG	ATTCCTCCTT
3481	ATCTTTTTAG	AGCATACTTC	TATICOGGG	ACTETACTTC	CTTAACACTC	ACCCCCATAG
3541	CCTCACTTCC	TTAGCACCCA	GTGAAGACCA	CCCTTACTCC	CTCACTCAAC	AGGGGCAAAG
3601	TTCCCACCTC	TCCTGTCCAA	CATCTAGTGT	CACTTTCCAG	AACATACCAA	CACCUMCCCC
3661	AGTTCTGTGC	CTCTGCTCAG	GCTGTTCCCC	CTGCCTGGTC	CACTTGTCCT	CAGCTTCCCC
3721	CGGTCAAAAT	GCTTCTTATC	CTTCAAGACC	CAGCTCTAGA	GTCACCTCCA	ACCCCTTACC
3781	CACCAGCCCC	CTCTCCAAGT	CTGTGTCCCA	CAACCCCCCT	GCTCCCTCCA	GGGCACCCTC
3841	CACCCTCTGG	GCCACAGTTG	TCAGGAGTCA	GGCAGGGCAG	GGGCCGGGTG	GTGTCTTCTT
3901	TGTGTTCTTG	CACTCAGGGC	AGAGCTCAGC	ACAGAGCAGA	CGCTCAAAAA	ΔΟΣΤΤΤΟΙΙ
3961	GATAGAAGCA	TTGATTTGTG	GGTCCCCCAG	TCTGGCTCCA	GGATGCCAGC	CAGCTGCTCC
4021	TAGAAGCAAA	CGGACTTTTC	CTGGGAAATC	CCAGAGGTGA	TGATCAGTAA	TCTCTCCCGT
4081	GACTCGTAGT	TCAGCTCTTC	CTCCATGAGC	CTGACTATCA	GTGGACCTTC	CAGAAAGAGC
4141	CCCTTTTCCT	TCTCTCACCC	ACAGCACAGG	GCACTGGGAA	AATGCCCAAT	GAGTCCTGCC
4201	TCTGGGTTGT	GCTTTGGACT	TTTCAGTGTG	TCTCGCATCC	ACTCTTCAAC	TTGAATGTTG
4261	CAACAGCCAT	GAAAAAAGAA	ATGCAAAGCG	ATTCAGGATG	AGAGCAATAC	CCTACTCCAA
4321	AGAAGGCAAC	ATAGAAGCTC	AGAGAGATCA	AGCAATTTGC	CCAAGACCAC	ACAGCTAGGA
4381	GTGGAACTCA	TGGCTGTCCA	AGCCCCATGC	CTCTGCTGAA	GGTAGAGATG	AATTACAGCA
4441	ACAAGTCTAG	AAAGGTGCCT	GCCCTATGGT	CTGTGAGTCT	TGCCTAAGAA	TGAAAGAGGA
4501	GCCAGTGGGT	TAAAGATGAG	GTCACCAACA	ACGGTGGTGT	TGGAGTTTAC	CACTGATAAT
4561	AAGGGTGCAA	AATGTAAATT	ACTAATGTTT	ATTGAGCCTA	GTGCAGTGCG	TGGGGCATTT
4621	TGCACATTGT	CTCTGATCCC	TATGACAACC	CTGAGAGGTA	GTGGTTTTAA	CTGCCATGTT
4681	ACAGGTGAGG	TCATTGTGGT	TCAAGGACGT	TAAGTAACTT	CCCCAGCGTG	ACACGGCTTA

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4741 TAAGTAAGGC AGCCAGGATG TGAACCCAGT AGGACTATCT GGCTGCAAAG TCCCCACCCC
 4801 CCTCGCCATC TGTATCCTCC AATCACTTCA GTGCTTTGCT GCATAGAAGG TAACGGAAAT
 4861 CACGATGCCA CAGACTGTCC AGGAAGACAG AAACTAGGCA GATGGGCTGG CCATGGTCTC
 4921 CAAGCCAGAC TGGAATCTCC AGGTCTGGAA TGATATCATT TTTCTCTTTT AATAAATTAA
 4981 CTCACCCACC ACACGGCTTT GAGAGGCTCA AAGTTGACCA ACTCCCTTGG GAGGGCCCCG
 5041 GTTGATAAGG AAGGAACGTG AATCCTCCCA TCACGGAAGC TTCAAGGAGG TCAAGGGTCC
 5101 AACACTTGAG ATTGTTAGTG CTGTTGGTGG ATACTGGCCA AGGAAATATC CCAGTGGAGC
 5161 CTCGAGATGA AGAACATGAG GCCCCCGTTT AGAACCAAGG ATCAGAGGGG GCTCTGTAAG
 5221 ACCCAGGGGA GTCAGGTGCA CTGGAGCGCG GGCATGCAGA AAACAGCCTG AGCTCCACCT
 5281 CGGCTTCTCC TTGTCCTGGC TGGTTGTCCT TAACCCCTGT CTCCTTCTGG ACCAGTTTTT
 5341 GTCCTTCCCT TGTGACCGCT GAGGGGTAAC AGCCTCTTTC CACTTTCTTT CAGCGCCGAC
 5401 ATGCTCAATG TCACCTTGCA AGGGCCCACT CTTAACGGGA CCTTTGCCCA GAGCAAATGC
5461 CCCCAAGTGG AGTGGCTGGG CTGGCTCAAC ACCATCCAGC CCCCCTTCCT CTGGGTGCTG
5521 TTCGTGCTGG CCACCCTAGA GAACATCTTT GTCCTCAGCG TCTTCTGCCT GCACAAGAGC
5581 AGCTGCACGG TGGCAGAGAT CTACCTGGGG AACCTGGCCG CAGCAGACCT GATCCTGGCC
5641 TGCGGGCTGC CCTTCTGGGC CATCACCATC TCCAACAACT TCGACTGGCT CTTTGGGGAG
5701 ACGCTCTGCC GCGTGGTGAA TGCCATTATC TCCATGAACC TGTACAGCAG CATCTGTTTC
5761 CTGATGCTGG TGAGCATCGA CCGCTACCTG GCCCTGGTGA AAACCATGTC CATGGGCCGG
5821 ATGCGCGGCG TGCGCTGGGC CAAGCTCTAC AGCTTGGTGA TCTGGGGGTG TACGCTGCTC
5881 CTGAGCTCAC CCATGCTGGT GTTCCGGACC ATGAAGGAGT ACAGCGATGA GGGCCACAAC
5941 GTCACCGCTT GTGTCATCAG CTACCCATCC CTCATCTGGG AAGTGTTCAC CAACATGCTC
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6121 GCCACGGTGC TAGTCCTGGT TGTGCTGCTG CTATTCATCA TCTGCTGGCT GCCCTTCCAG
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6241 CGCATCATCG ATGTAATCAC ACAGATCGCC TCCTTCATGG CCTACAGCAA CAGCTGCCTC
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6361 CAGGGAGTGT GCCAGAAAGG GGGCTGCAGG TCAGAACCCA TTCAGATGGA GAACTCCATG
6421 GGCACACTGC GGACCTCCAT CTCCGTGGAA CGCCAGATTC ACAAACTGCA GGACTGGGCA
6481 GGGAGCAGAC AGTGAGCAAA CGCCAGCAGG GCTGCTGTGA ATTTGTGTAA GGATTGAGGG
6541 ACAGTTGCTT TTCAGCATGG GCCCAGGAAT GCCAAGGAGA CATCTATGCA CGACCTTGGG
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6721 ACAGCATTAC TGTTCTTATT TGCTGCCACA CCTGAGCCAG CCTGCTCCTT CCCAGGAGTG
6781 GAGGAGGCCT GGGGGCAGGG AGAGGAGTGA CTGAGCTTCC CTCCCGTGTG TTCTCCGTCC
6841 CTGCCCCAGC AAGACAACTT AGATCTCCAG GAGAACTGCC ATCCAGCTTT GGTGCAATGG
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6961 AGGACAATTT CTTGCATTAA TAAAGGTTAA GCCCTGAGGG GTCCCTGATA ACAACCTGGA
7021 GACCAGGATT TTATGGCTCC CCTCACTGAT GGACAAGGAG GTCTGTGCCA AAGAAGAATC
7081 CAATAAGCAC ATATTGAGCA CTTGCTGTAT ATGCAGTATT GAGCACTGTA GGCAAGAGGG
7141 AAGAAAGAGA AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT
7201 GGGCACTGCC ACCACCAGAA AGCTGTTCGA TGAGACGGTC GAGCAGGGTG CTGTGGGTGA
7261 TATGGACAGC AGAAGGGGGA GCCAGGTTCC AGCTCACCAA TACTATTGCA CACCACCTGT
7321 CCTGCCTC
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(2) INFORMATION FOR SEQ ID NO:2446:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2239 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2446:
- 1 CTGCAGAAAA CAGCCTGAGC TCCACCTCGG CTTCTCCTTG CCCTGGCTGG TTGTCCTTAA
- 61 CCCCTGTCTC CTTCTGGACC AGTTTTTGTC CTTCCCTTGT GACCCTGAGG GGTAACAGCC 121 TCTTTTCCAC TTTCTTTCAG CGCCGACATG CTCAATGTCA CCTTGCAAGG GCCCACTCTT
- 241 ATCCAGCCCC CCTTCCTCTG GGTGCTGTTC GTGCTGGCCA CCCTAGAGAA CATCTTTGTC 301 CTCAGCGTCT TCTGCCTGCA CAAGAGCAGC TGCACGGTGG CAGAGATCTA CCTGGGGAAC
- 361 CTGGCCGCAG CAGACCTGAT CCTGGCCTGC GGGCTGCCCT TCTGGGCCAT CACCATCTCC 421 AACAACTTCG ACTGGCTCTT TGGGGAGACG CTCTGCCGCG TGGTGAATGC CATTATCTCC
- 481 ATGAACCTGT ACAGCAGCAT CTGTTTCCTG ATGCTGGTGA GCATCGACCG CTACCTGGCC
- 541 CTGGTGAAAA CCATGTCCAT GGGCCGGATG CGCGGCGTGC GCTGGGCCAA GCTCTACAGC

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601 TTGGTGATCT GGGGGTGTAC GCTGCTCCTG AGCTCACCCA TGCTGGTGTT CCGGACCATG
 661 AAGGAGTACA GCGATGAGGG CCACAACGTC ACCGCTTGTG TCATCAGCTA CCCATCCCTC
 721 ATCTGGGAAG TGTTCACCAA CATGCTCCTG AATGTCGTGG GCTTCCTGCT GCCCCTGAGT
 781 GTCATCACCT TCTGCACGAT GCAGATCATG CAGGTGCTGC GGAACAACGA GATGCAGAAG
 841 TTCAAGGAGA TCCAGACGGA GAGGAGGGCC ACGGTGCTAG TCCTGGTTGT GCTGCTA
 901 TTCATCATCT GCTGGCTGCC CTTCCAGATC AGCACCTTCC TGGATACGCT GCATCGCCTC
 961 GGCATCCTCT CCAGCTGCCA GGACGAGCGC ATCATCGATG TAATCACACA GATCGCCTCC
1021 TTCATGGCCT ACAGCAACAG CTGCCTCAAC CCACTGGTGT ACGTGATCGT GGGCAAGCGC
1081 TTCCGAAAGA AGTCTTGGGA GGTGTACCAG GGAGTGTGCC AGAAAGGGGG CTGCAGGTCA
1141 GAACCCATTC AGATGGAGAA CTCCATGGGC ACACTGCGGA CCTCCATCTC CGTGGAACGC
1201 CAGATTCACA AACTGCAGGA CTGGGCAGGG AGCAGACAGT GAGCAAACGC CAGCAGGGCT
1261 GCTGTGAATT TGTGTAAGGA TTGAGGGACA GTTGCTTTTC AGCATGGGCC CAGGAATGCC
1321 AAGGAGACAT CTATGCACGA CCTTGGGAAA TGAGTTGATG TCTCCGGTAA AACACCGGAG
1381 ACTAATTCCT GNCCTGCCCA ATTTTGCAGG GAGCATGGCT GTGAGGATGG GGTGAACTCA
1441 CGCACAGCCA AGGACTCCAA AATCACAACA GCATTACTGT TCTTATTTGC TGCCACACCT
1501 GAGCCAGCCT GCTCCTTCCC AGGAGTGGAG GAGGCCTGGG GGCAGGGAGA GGAGTGACTG
1561 AGCTTCCCTC CCGTGTGTTC TCCGTCCCTG CCCCAGCAAG ACAACTTAGA TCTCCAGGAG
1621 AACTGCCATC CAGCTTTGGT GCAATGGCTG AGTGCACAAG TGAGTTGTTG CCCTGGGTTT
1681 CTTTAATCTA TTCAGCTAGA ACTTTGAAGG ACAATTTCTT GCATTAATAA AGGTTAAGCC
1741 CTGAGGGGTC CCTGATAACA ACCTGGAGAC CAGGATTTTA TGGCTCCCCT CACTGATGGA
1801 CAAGGGAGGT CTGTGCCAAA GAAGAATCCA ATAAGCACAT ATTGAGCACT TGCTGTATAT
1861 GCAGTATTGA GCACTGTAGG CAAGAGGGAA GAAAGAGAAG GAGCCATCTC CATCTTGAAG
1921 GAACTCAAAG ACTCAAGTGG GAACGACTGG CACTGCCACC ACCAGAAAGC TGTTCGACGA
1981 GACGGTCGAG CAGGGTGCTG TGGGTGATAT GGACAGCAGA AGGGGGAGAC CAAGGTTCCA
2041 GCTCAACCAA TAACTATTGC ACAACCACCT GTCCCTGCCT CAGTTCCCTC TTCTGTAACA
2101 TGAAGTCGTT GTGAGGGTTA AAGGCAGTAA CAGGTATAAA GTACTTAGAA AAGCAAAGGG
2161 TGCTACGTAC ATGTGAGGCA TCATTACGCA GACGTAACTG GGATATGTTT ACTATAAGGA
2221 AAAGACACTG AGGTCTAGA
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(2) INFORMATION FOR SEQ ID NO:2447:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2478 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2447:
- 1 TGATCCTATC ACAACCTGAG AGTAGTTTTT ACTCCATTTA CAGGTGAGGT CATTGTGGTT 61 CAAGGACGTT AAGTAACTTC CCCAGCTCAC ACGGCTTATA AGTAAGGCAG CCAGGATGTG 121 AACCCAGTAG GACTATCTGG CTGCAAAGTC CCCACCCTCC CTCGCCATCT GTATCCTCCA 181 ATCATCTTCA GTGCTTTGCT GATAGAAGGT ACGGAAATAC GATGCCACAG ACTGTCCAGG 241 AAGACAGAAA CTAGGCAGAT GGGCTGGCCA TGGTCTCCAA GCCAGACTGG AATCTCCAGG 301 TCTGGAATGA TATCATTTTT CTCTTTTAAT AAATTAACTC ACCCACCACA CGGCTTTGAG 361 AGGCTCAAAG GTGACCAACT CCCTTGGGAG GGCCCCGGTT GATAAGGAAG GAATGTGAAT 421 CCTCCCATCA CGGAAGCTTC AAGGAGGTCA AGGGTCCAAC ACTTGAGATT GTTAGTGCTG 481 TTGGTGGATA CTGCAGAATA TCCAGTGGAG CCTCAGATGA AGAACATGAG GCCCCGTTTA 541 GATCCAAGGA TCAGAGGGGG CTCTGTAAGA CCCAGGGGGAG TCAGGTGCAC TGGAGCGCGG 601 GCTGCAGAAA ACAGCCTGAG CTCCACCTCG GCTTCTCCTT GCCCTGGCTG GTTGTCCTTA 661 ACCCCTGTCT CCTTCTGGAC CAGTTTTTGT CCTTCCCTTG TGACCTGAGG GGTAACAGCC 721 TCTTTTCCAC TTTCTTTCAG CGCCGACATG CTCAATGTCA CCTTGCAAGG GCCCACTCTT 841 ATCCAGCCCC CCTTCCTCTG GGTGCTGTTC GTGCTGGCCA CCCTAGAGAA CATCTTTGTC 901 CTCAGCGTCT TCTGCCTGCA CAAGAGCAGC TGCACGGTGG CAGAGATCTA CCTGGGGAAC 961 CTGGCCGCAG CAGACCTGAT CCTGGCCTGC GGGCTGCCCT TCTGGGCCAT CACCATCTCC 1021 AACAACTTCG ACTGGCTCTT TGGGGAGACG CTCTGCCGCG TGGTGAATGC CATTATCTCC 1081 ATGAACCTGT ACAGCAGCAT CTGTTTCCTG ATGCTGGTGA GCATCGACCG CTACCTGGCC 1141 CTGGTGAAAA CCATGTCCAT GGGCCGGATG CGCGGCGTGC GCTGGGCCAA GCTCTACAGC 1201 TTGGTGATCT GGGGGTGTAC GCTGCTCCTG AGCTCACCCA TGCTGGTGTT CCGGACCATG 1261 AAGGAGTACA GCGATGAGGG CCACAACGTC ACCGCTTGTG TCATCAGCTA CCCATCCCTC 1321 ATCTGGGAAG TGTTCACCAA CATGCTCCTG AATGTCGTGG GCTTCCTGCT GCCCCTGAGT 1381 GTCATCACCT TCTGCACGAT GCAGATCATG CAGGTGCTGC GGAACAACGA GATGCAGAAG 1441 TTCAAGGAGA TCCAGACGGA GAGGAGGGCC ACGGTGCTAG TCCTGGTTGT GCTGCTGCTA

1501 TTCATCATCT GCTGGCTGCC CTTCCAGATC AGCACCTTCC TGGATACGCT GCATCGCCTC

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1561 GGCATCCTCT CCAGCTGCCA GGACGAGCGC ATCATCGATG TAATCACACA GATCGCCTCC
1621 TTCATGGCCT ACAGCAACAG CTGCCTCAAC CCACTGGTGT ACGTGATCGT GGGCAAGCGC
1681 TTCCGAAAGA AGTCTTGGGA GGTGTACCAG GGAGTGTGCC AGAAAGGGGG CTGCAGGTCA
1741 GAACCCATTC AGATGGAGAA CTCCATGGGC ACACTGCGGA CCTCCATCTC CGTGGAACGC
1801 CAGATTCACA AACTGCAGGA CTGGGCAGGG AGCAGACAGT GAGCAAACGC CAGCAGGGCT
1861 GCTGTGAATT TGTGTAAGGA TTGAGGGACA GTTGCTTTTC AGCATGGGCC CAGGAATGCC
1921 AAGGAGACAT CTATGCACGA CCTTGGGAAA TGAGTGTTGA TGTCTCCGGT AAAACACCGG
1981 AGACTAATTC CTGCCCTGCC CAATTTTCGA GGGAGCATGG CTGTGAGGAT GGGGTGAACT
2041 CACGCACAGC CAAGGACTCC AAAATCACAA CAGCATTACT GTTCTTATTT GCTGCCACAC
2101 CTGAGCCAGC CTGCTCCTTC CCAGGAGTGG AGGAGGCCTG GGGGAGGGAG AGGAGTGACT
2161 GAGCTTCCCT CCCGTGTGTT CTCCGTCCCT GCCCCAGCAA GACAACTTAG ATCTCCAGGA
2221 GAACTGCCAT CCACGTTTGG TGCAATGGCT GAGTGCACAA GTGAGTTGTT GCCCTGGGTT
2281 TCTTTAATCT ATCAGCTAGA ACTTTGAAGG ACAATTTCTT GCATTAATAA AGGTTAAGCC
2341 CTGAGGGGTC CCTTGATAAC AACCTGGAGA CCAGGATTTT ATGGCTCCCC TCACTGATGG
2401 ACAAGGAGGT CTGTGCCAAA GAAGAATCAA TAAGCACATA TGAGCACTTC TGTATATCAG
2461 TATTGAGCAC TGTAGGCA
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(2) INFORMATION FOR SEQ ID NO:2448:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2448:
- 1 ATGTTCTCTC CCTGGAAGAT ATCAATGTTT CTGTCTGTTT GTGAGGACTC CGTGCCCACC
 61 ACGGCCTCTT TCAGCGCCGA CATGCTCAAT GTCACCTTGC AAGGGCCCAC TCTTAACGGG
 121 ACCTTTGCCC AGAGCAAATG CCCCCAAGTG GAGTGGCTGG GCTGGCTCAA CACCATCCAG
 181 CCCCCCTTCC TCTGGGTGCT GTTCGTGCTG GCCACCCTAG AGAACATCTT TGTCCTCAGC
- 241 GTCTTCTGCC TGCACAAGAG CAGCTGCACG GTGGCAGAGA TCTACCTGGG GAACCTGGCC
- 301 GCAGCAGACC TGATCCTGGC CTGCGGGCTG CCCTTCTGGG CCATCACCAT CTCCAACAAC
- 361 TTCGACTGGC TCTTTGGGGA GACGCTCTGC CGCGTGGTGA ATGCCATTAT CTCCATGAAC 421 CTGTACAGCA GCATCTGTTT CCTGATGCTG GTGAGCATCG ACCGCTACCT GGCCCTGGTG
- 481 AAAACCATGT CCATGGGCCG GATGCGCGGC GTGCGCTGGG CCAAGCTCTA CAGCTTGGTG
- 541 ATCTGGGGGT GTACGCTGCT CCTGAGCTCA CCCATGCTGG TGTTCCGGAC CATGAAGGAG
- 601 TACAGCGATG AGGGCCACAA CGTCACCGCT TGTGTCATCA GCTACCCATC CCTCATCTGG 661 GAAGTGTTCA CCAACATGCT CCTGAATGTC GTGGGCTTCC TGCTGCCCCT GAGTGTCATC
- 721 ACCTTCTGCA CGATGCAGAT CATGCAGGTG CTGCGGAACA ACGAGATGCA GAAGTTCAAG
- 781 GAGATCCAGA CGGAGAGGAG GGCCACGGTG CTAGTCCTGG TTGTGCTGCT GCTATTCATC 841 ATCTGCTGGC TGCCCTTCCA GATCAGCACC TTCCTGGATA CGCTGCATCG CCTCGGCATC
- 901 CTCTCCAGCT GCCAGGACGA GCGCATCATC GATGTAATCA CACAGATCGC CTCCTTCATG
- 961 GCCTACAGCA ACAGCTGCCT CAACCCACTG GTGTACGTGA TCGTGGGCAA GCGCTTCCGA 1021 AAGAAGTCTT GGGAGGTGTA CCAGGGAGTG TGCCAGAAAG GGGGCTGCAG GTCAGAACCC
- 1081 ATTCAGATGG AGAACTCCAT GGGCACACTG CGGACCTCCA TCTCCGTGGA ACGCCAGATT 1141 CACAAACTGC AGGACTGGGC AGGGAGCAGA CAGTGAGCAA ACGCCAGCAG GGCTGCTGTG
- 1201 AATTTGTGTA AGGATTGAGG GACAGTTGCT T

(2) INFORMATION FOR SEQ ID NO:2449:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2449:
- 1 ATGTTCTCTC CCTGGAAGAT ATCAATGTTT CTGTCTGTTC GTGAGGACTC CGTGCCCACC 61 ACGGCCTCTT TCAGCGCCGA CATGCTCAAT GTCACCTTGC AAGGGCCCAC TCTTAACGGG
- 121 ACCTTTGCCC AGAGCAAATG CCCCCAAGTG GAGTGGCTGG GCTGGCTCAA CACCATCCAG
- 181 CCCCCCTTCC TCTGGGTGCT GTTCGTGCTG GCCACCCTAG AGAACATCTT TGTCCTCAGC 241 GTCTTCTGCC TGCACAAGAG CAGCTGCACG GTGGCAGAGA TCTACCTGGG GAACCTGGCC
- 301 GCAGCAGACC TGATCCTGGC CTGCGGGCTG CCCTTCTGGG CCATCACCAT CTCCAACAAC
- 361 TTCGACTGGC TCTTTGGGGA GACGCTCTGC CGCGTGGTGA ATGCCATTAT CTCCATGAAC
- 421 CTGTACAGCA GCATCTGTTT CCTGATGCTG GTGAGCATCG ACCGCTACCT GGCCCTGGTG
 481 AAAACCATGT CCATGGGCCG GATGCGCGGC GTGCGCTGGG CCAAGCTCTA CAGCTTGGTG
- 541 ATCTGGGGGT GTACGCTGCT CCTGAGCTCA CCCATGCTGG TGTTCCGGAC CATGAAGGAG

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601 TACAGCGATG AGGGCCACAA CGTCACCGCT TGTGTCATCA GCTACCCATC CCTCATCTGG
      661 GAAGTGTTCA CCAACATGCT CCTGAATGTC GTGGGCTTCC TGCTGCCCCT GAGTGTCATC
      721 ACCTTCTGCA CGATGCAGAT CATGCAGGTG CTGCGGAACA ACGAGATGCA GAAGTTCAAG
      781 GAGATCCAGA CGGAGAGGAG GGCCACGGTG CTAGTCCTGG TTGTGCTGCT GCTATTCATC
      841 ATCTGCTGGC TGCCCTTCCA GATCAGCACC TTCCTGGATA CGCTGCATCG CCTCGGCATC
      901 CTCTCCAGCT GCCAGGACGA GCGCATCATC GATGTAATCA CACAGATCGC CTCCTTCATG
      961 GCCTACAGCA ACAGCTGCCT CAACCCACTG GTGTACGTGA TCGTGGGCAA GCGCTTCCGA
     1021 AAGAAGTCTT GGGAGGTGTA CCAGGGAGTG TGCCAGAAAG GGGGCTGCAG GTCAGAACCC
     1081 ATTCAGATGG AGAACTCCAT GGGCACACTG CGGACCTCCA TCTCCGTGGA ACGCCAGATT
     1141 CACAAACTGC AGGACTGGGC AGGGAGCAGA CAGTGAGCAA ACGCCAGCAG GGCTGCTGTG
     1201 AATTTGTGTA AGGATTGAGG GACAGTTGCT T
(2) INFORMATION FOR SEQ ID NO:2450:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 266 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2450:
        1 GCCCTTCAAA GATGAGCTGT TCCCGCCGCC ACTCCAGCTC TGGCTTCTGG GCTCCGAGGA
       61 GGGGTGGGGA CGGTGGGGAC ATCAGGCTGC CCCGCAGTAC CAGGGAGCGA CTGAAGTGCC
      121 CATGCCGCTT GCTCCGGAGA AGGTGGGTGC CGGGCAGGGG CTGCTCCAGC CGCCTCACCT
      181 CTGCTGGGAG GACAAACTGT CCCAGCACAG AGGGAGGGAG GGAGGGCAGG CAGCGGGGAG
      241 AAGTTTCCCT GTGGTCGTGG GGAGTT
(2) INFORMATION FOR SEQ ID NO:2451:
       (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 275 base pairs
         (B) TYPE: nucleic acid
         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2451:
       1 GCCCTTCAAA GATGAGCTGT TCCCGCCGCC ACTCCAGCTC TGGCTTCTGG GCTCCGAGGA
      61 GGGGTGGGA CGGTGGTGAC GGTGGGGACA TCAGGCTGCC CCGCAGTACC AGGGAGCGAC
     121 TGAAGTGCCC ATGCCGCTTG CTCCGGAGAA GGTGGGTGCC GGGCAGGGGC TGCTCCAGCC
     181 GCCTCACCTC TGCTGGGAGG ACAAACTGTC CCAGCACAGA GGGAGGGAGG GAGGGCAGGC
     241 AGCGGGGAGA AGTTTCCCTG TGGTCGTGGG GAGTT
(2) INFORMATION FOR SEQ ID NO:2452:
      (i) SEQUENCE CHARACTERISTICS:
         (A) LENGTH: 1464 base pairs
         (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2452:
       1 GAGCTCTTCA ATATTTTAGT GAAAGCTATA GATGAGGCTC CATAGGGGAT AAAGCACAGA
      61 CACACCTTTT CAGAGGGCTT GTGGACTCTG GGCAGCCTGT CCATAGACCT CTGTCCCCAA
     121 CTGGCAAGTC AGGAAACTCC AGATTAAGGA GCCCCAATGT GGTTGAACAG CCAGGTGCAC
     181 AGATGAGTCA ACCACACAGC CAGGCCAGGG AGGGCCTTCA CTCAAGAGCC TACAGCCAGT
     241 TCACAGCCAA GCCAGGGCTA GCGCCAGGCC ACCCATAAAC TGATCTGAGA CTCTGTTTCC
     301 CTGTCTCCAT GATGATGGGA TCAGGCTTGA TTGCTGGTTT GTAGGCTTGT TATGAATCAA
     361 GTCACAGGGA AGAGGAGCTG ATGGGCTGGG GGGACGTCCT CTGGCCCTCC TGTCTCTTCC
     421 CCAGATCCAC TGGGCCCACT CTTATCTGTT CTCTTCTGAA GGAAGGGTTT TAAGGCTTCA
     481 AAAAAAATG TTTTGAAAGT CCCTGCCCTT TCCAGCTCCT ACCGTCTCAG CCCTGGGAGT
     541 GTAAAGTGCT GCAGATAGTT AGTAAGTCTT TGAGCAAAAC TGAGAAAGCC AGCCTGAGCC
     601 TTGACATGGG AGAAACCTCC GCCATACATC TCCGAAGAAA CGGCCGCGTG TCTCAGGGGA
     661 GCGCAAACAC CCGTACCCAG GAAACAGGAC AGCTTCTGCC ACTGTCGCCC TTGGGAGCCG
     721 TACGTGGCAT GACAAAGAAA TCCCAGGACT CCGCCTGCCC ACCTGGCCAC CCTCTGTTTA
     781 CACCTTCCGC GTAAACGCCC ACTGTTTACA TCCAAAACTC AGACACAAAA TAACCACCTC
     841 AAGAAGATAA ATAATGATAA GAAATAAATG TTACGCGAGG CAAATTTATT CACATGGGGC
     901 TTCCCAGGCC ACTTTGTGGT CAGCCGGGAG GGACGTTTTT GCCGTCCCAC GACTCCAACG
     961 GGCAGCCGGG CCTACGCAAA CATGGAAATC TTCCAAGAGC CTCCCTGGCC CCCAGGGCTC
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1021 AGAGGGTGGC AGAGCGGAGA GCGAAGGTGG CCGCAGCCTT CCCGGCCCCA CAGCCAGCCT

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1081 GGCTCCAGCT GGGCAGGAGT GCAGAGCTCA GCTGGAGGCC AGGGGGAAGT GCCCAGGAGG
1141 CTGATGACAT CACTACCCAG CCCTTCAAAG ATGAGCTGTT CCCGCCGCCA CTCCAGCTCT
1201 GGCTTCTGGG CTCCGAGGAG GGGTGGGGAC GGTGGTGACG GTGGGACAT CAGGCTGCCC
1261 CGCAGTACCA GGGAGCGACT GAAGTGCCCA TGCCGCTTGC TCCGGAGAAG GTGGGTGCCG
1321 GGCAGGGGCT GCTCCAGCCG CCTCACCTCT GCTGGGAGGA CAAACTGTCC CAGCACAGAG
1381 GGAGGGAGGG AGGCCAGGCA GCGGGGAGAA GTTTCCCTGT GGTCGTGGG AGTTGGGAAA
1441 AGTTCCCTTC CTTCCGGAGG GAGG
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- (2) INFORMATION FOR SEQ ID NO:2453:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2599 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2453:
 - 1 CAGATTCACA AACTGCAGGA CTGGGCAGGG AGCAGACAGT GAGCAAACGC CAGCAGGGCT 61 GCTGTGAATT TGTGTAAGGA TTGAGGGACA GTTGCTTTTC AGCATGGGCC CAGGAATGCC 121 AAGGAGACAT CTATGCACGA CCTTGGGAAA TGAGTTGATG TCTCCGGTAA AACACCGGAG 181 ACTAATTCCT GCCCTGCCCA ATTTTGCAGG GAGCATGGCT GTGAGGATGG GGTGAACTCA 241 CGCACAGCCA AGGACTCCAA AATCACAACA GCATTACTGT TCTTATTTGC TGCCACACCT 301 GAGCCAGCCT GCTCCTTCCC AGGAGTGGAG GAGGCCTGGG GGGAGGGAGA GGAGTGACTG 361 AGCTTCCCTC CCGTGTGTTC TCCGTCCCTG CCCCAGCAAG ACAACTTAGA TCTCCAGGAG 421 AACTGCCATC CAGCTTTGGT GCAATGGCTG AGTGCACAAG TGAGTTGTTG CCCTGGGTTT 481 CTTTAATCTA TTCAGCTAGA ACTTTGAAGG ACAATTTCTT GCATTAATAA AGGTTAAGCC 541 CTGAGGGGTC CCTGATAACA ACCTGGAGAC CAGGATTTTA TGGCTCCCCT CACTGATGGA 601 CAAGGAGGTC TGTGCCAAAG AAGAATCCAA TAAGCACATA TTGAGCACTT GCTGTATATG 661 CAGTATTGAG CACTGTAGGC AAGACCCAAG AAAGAGAAGG AGCCATCTCC ATCTTGAAGG 721 AACTCAAAGA CTCAAGTGGG AACGACTGGG CACTGCCACC ACCAGAAAGC TGTTCGACGA 781 GACGGTCGAG CAGGGTGCTG TGGGTGATAT GGACAGCAGA AGGGGGAGAC CAAGGTTCCA 841 GCTCAACCAA TAACTATTGC ACAACCACCT GTCCCTGCCT CAGTTCCCTT TTATGTAACA 901 TGAAGTCGTT GTGAGGGTTA AAGGCAGTAA CAGGTATAAA GTACTTAGAA AAGCAAAGGG 961 TGCTACGTAC ATGTGAGGCA TCATTACGCA GACGTAACTG GGATATGTTT ACTATAAGGA 1021 AAAGACACTG AGGTCTAGAA ATAGCTCCGT GGAGCAGAAT CAGTATTGGG AGCCGGTGGC 1081 GGTGTGAAGC ACCAGTGTCT GGCACACAGT AGGTGCTCAT TGGCTCCCTT CCACCTGTCA 1141 TTCCCACCAC CCTGAGGCCC CAACCGCCAC ACACAGGA GCATTTGGAG AGAAGGCCAT 1201 GTCTTCAAAG TCTGATTTGT GATGAGGCAG AGGAAGATAT TTCTAATCGG TCTTGCCCAG 1261 AGGATCACAG TGCTGAGACC CCCCACCACC AGCCGGTACC TGGGAAGGGG GAGAGTGCAG 1321 GCCTGCTCAG GGACTGTTCC TGTCTCAGCA ACCAAGGGAT TGTTCCTGTC AATCAATGGT 1381 TTATTGGAAG GTGGCCCAGT ATGAGCCCTA GAAGAGTGTG AAAAGGAATG GCAATGGTGT 1441 TCACCATCGG CAGTGCCAGG GCAGCACTCA TTCACTTGAT AAATGAATAT TTATTAGCTG 1501 GTTGGAGAGC TAGAACCTGG AGAGCTAGAA CCTGGAGAAC TAGAACCTGG AGGGCTAGAA 1561 CCTGGAGAGG CTAGAACCAA GAAGGGCTAG AACCTGGAGG GGCTAGAACC TAGAGAAGCT 1621 AAAACCTGAG CTAGAAGCTG GAGGACTAGA ACCTGGAGGG CTGGAATCTG AAGGGCTAGA 1681 ACCTGGAGGG CTGGAATCTG GAGAGCTAGA ACCTGGAGGG CTAGAACCTG GAGGGCTAGA 1741 ACCTAGAAGG GCTAGAACCT GGAGGGCTGG AATCTGGAGA GCTAGAACCT GGAGGGCTAG 1801 AACCTGGAGG GCTAGAACCT AGAAGGGCTA GAACCTGGAG GGCTAGAACC TGGCAGGTTA 1861 GAACCTAGAA GGGCTAGAAC CTGGAGAGCC AGAACCTGGA GGGCTAGAAC CTGGAAGGGC 1921 TAGAACCTGT AGAGCTAGAA CATGGAGAGC TAGAACCCGG CAGGCTAGAA CCTGGCAAGC 1981 TAGAACCTGG AGGGAATGAA CCTGGAGGGC TAGAACCTGG AGAATGAGAA AAATTTACAT 2041 GGCAAAGAGC CCATAAATCC TGACCAATCC AACTCTGAAT TTTAAAGCAA AAGCGTGAAA 2161 CTCAGTAAGT ATCTGGAGGA AGAAAACAGG TGAAAGAAGA AGTAAAAACC ATTTAGTATT 2221 AGTATTAGAA TGAAGTCAAA CTGTGCCACA CATGGTGAAT GAAAAAAAA AAAAAGAGGC 2281 TGTGTTTTGT CACACAGGGC AGTCATTCAG CACCAGAGCA CGTGATGGTC TGAGACTCTC 2341 TTAGGAGCAG AGCTCTGCCG CAATGGCCAT GTGGGGATCC ACACCTGGTC TGAGGGGCAA 2401 CTGAGTCTGC GGGAGAAGAG CGGCCCTATG CATGGTGTAG ATGCCCTGAT AAAGAACATC 2461 TGTCCTGTGA AAGACTCAAT GAGCTGTTAT GTTGTAAACA GGAAGCATTT CACATCCAAA 2521 CGAGAAAATC ATGTAAACAT GTGTCTTTTC TGTAGAGCAT AATAAATGGA TGAGGTTTTT 2581 GCAAAAAAA АААААААА
- (2) INFORMATION FOR SEQ ID NO:2454:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 7328 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2454:
- 1 AAATGATAGA CCGTCAATAA TTTGTTAAAT GCTTTTTAAA ATGAATGCTT TAAGCCGGGT 61 GCAGTGCCTC ACATCTGTAA TCCCAGCACT TTGGAGCCGA GCGGGTGGAT TGTGTGAGGT 121 CAGGAGTTCG AGACCAACCT GGCCAACATG GCAAAACCTC ACTCTCTACC AAAAATACAA 181 AAATTAGCCA GGCATGGTGG CAGGCACCTG TGATCCCAGC TACTCAGGAG GCTGAGACAG 241 GAGAATCGCT TGAACCCGGG AGGCAAGGTT GCAGTGAGCC AAGATTACGC CATTGTACTC 301 CAGCCTGGGT GACAGAGAGA GACTCCGTCT CAAAAAAAAA AAAAAAAAA AAAAAAATTAC 361 GCTTCAAACA CATGATCTCT CACCACTGTT GAATTTTCTT TCTATGAGCC CAGGAGGGCC 421 TCTCAGAGAG GAAAGCTCCT AGGTCTTCCT TTCCCTCTGC AAACTCCCTG CCTTGAAGGT 481 TCAGAAGGAC TGTGCGTGCT CGTTGCATCC TTTGCAAGTG TCCAAACCCT GATCCCAGCT 541 GTGCTTAGGG GTTCCTGCAA ACCTTTTCCA GGTGTTAATT ACCTCCCACT TCATTTCCTG 601 TTTACCAACT CAGCTTTTTG TTTTAGTGTG TTTGAATTCC CTGAACTGAC CGTTGTCTGA 661 TCTCCACCTC CCAACTGAAT TAGGGGAGCT GGGCTTCTGG AAACCCAGGT GCCGGGTGTT 721 GCAGAGTGGC TGAAAGCTGG GATGTGGCAG ATCCGTGGCT ACATTCATGC ACACACACAC 781 ACCCACATAC CCACACATGC ACACACACA ACACACCCGC ACTCACACAC TTGGACATGC 841 ATAGACCACA GCTTTCCACA CCCTTCCTAG ACAGGGGTCA CTTGGTATCC TGGAGAGAGT 901 GTGAAGTCCT GGAATGGAAA GAGGGGGGAT TAAGCCCCAC CTCTAGCCAT GGGACTGAGA 961 CAAGTCACCA CCAACCCATC TGCGCCTTGT TTACCTCCTC TGTGAGGCAA GCACAGAGCC 1021 CATGCCTGCC CCCCTGGATG GGAGTGATGT GAAACTTGAA GGGCGGTCAG AGCAAGGGTC 1081 GGGAATGGAA GGCCCTTGGG AAAAAAGGCC CTTTCAACTA GGGGCACAGA GGAGGCCCTG 1141 GGCTGAGAAC TTGACAGCAC CTTGTAATTG GTAAGCCAAG CCCGAAGGGA CTGGAAATAC 1201 TCAGATGTGT CTGTCTCCCT TATTAGGTTC AAAGTCCCTC AAGACCCTGT CTCCATCACA 1261 GTGCTCCAGT CCAGACCCCT CCTCTGAGCT CCAGACCCTG CTGGACCCAA CCAGCCCTAT 1321 GGGGTCGCAT CCCCACCTGC CTGGAATTCT CCAAAGAACC TCCCCTTTAA CAGTTCCAGC 1381 CTTTAACAGT TCCAGTCTAA ACACATGACC TTTCTCCTCT AAATCAGCCC CCCATCTCTG 1441 CCTTTGCAGG AGATGGAAGC CATGACACCT GCCTCGCCCC TGTCCTCACC CCATCCATGT 1501 CCAATCAAGC ACTAGGCATG TCAGGTTTAC CCTCTAAACT CCTCTGGAAT CCAGTCTCTC 1561 AGTCTCCATC ATCCCAGGTC GAAGCTAATG GGCTAACTGG TCCTTGCTTC CACTCTACCC 1621 CCACTGCAGT CCTGACTTCC TGAGCAGCAG CCAGGGCCTA ATCGATATTC ACACCAAGCG 1681 CCAACCTGAC TGAGATATCC TCCTGCACCA TCATCCCTCC ACCCTGTTTA GTTCTGCTCA 1741 CCCTCAGTGT TCTCATCAAT AATCCACTCC CCTCACAGGC GCGTTTGGGA CCCCATGTTC 1801 TATGCTCTCA CAGGACCTTT TGCTTGATTT TTCACTGTAC TTAGGTCAGT TTGCAGTTAT 1861 TAAGTGACTG AGCAATGTCT GGCTTCTCCA GTAGACTGTC AGCTCCTAGC CATTGTATAC 1921 CTAGCACCGC TGTGTGGGAG CACGTGACAA ACGTCCAGTG AGTCAGGGAC TCAGCAGTCT 1981 CCATTTCTCC GCCCTGCTGG AGAATGCGTG TATTTGGCAA TCCCCAGCCC CTGTGCCATC 2041 TAACCATCTT TTCTTCTG TTCAGCCCAG GTGTGGCCTC ACTCACATCC CACTCTGAGT 2101 CCAAATGTTC TCTCCCTGGA AGATATCAAT GTTTCTGTCT GTTCGTGAGG ACTCCGTGCC 2161 CACCACGGCC TCTTTCAGGT GAGTCAAAGG GATTCCTCAG TTCACTAGTT AGGGGAGGTG 2221 GGCAGACACC CTGGAGAACT CCCTGGAAAG CTCAACTCTC ATGCCCCGGA CAACAGTTGA 2281 AGGAACCATG GTGATGTTAA GCCCAAAGAC AAAACCTCTC AGGTGTCCAA GTCCCTGTTG 2341 GAATCTTGGG AGCAGAGGA ATGTTCTGTG GTCTAGAGGA AGAGGGGCTC AGGGAGGAGA 2401 AGGGCACATT CCTGGTTGTT ATATGTTTCT ATCTATCCCA GATGAACTTG GAAGTGAAGG 2461 GAAGAGATT AAACATTAAA GTAAATACCC AGTGGATCAG ACAGCAATGT GCCAGATTGC 2521 CTTGGAAACA AAATATCTCC AACACATGGC TGACATTTGG TGGGAGATCA GAACACCCTA 2581 AAGAGAGAAT TTAAGGGGAG GGGGAGGAGG ACCTGAGCCA GAGTAGAAGC AGAGGATAGG 2641 GAGATCTGTT CTTGGGGACA GCATTTGCAA GAAACAAGGC TGAGGGGTCC ACTCCAACCT 2701 CTCCACCCTG CTGCAGGTGC TGCCTATGAT GAAGATGAGC AGATGGCCAT CTCAGCTGGG 2761 GCCACAGTGC ACTGGACCTA TAGTTTCCAA TTCCGCACTC AGCAGGCATC TTTCTGATGA 2821 TCCGATGGCT TCTCAGAGCC AGGGATGGGC CAGGATCCAT CCCCTTGGCT ACTGTCTTGC 2881 TGAGAAATTT ATAAGCAGCA TCTGGTGCTA TACTTTGGTC TCTAGTGAGT TAGCTCATGA 2941 AAGATGATAG ACTCTCCAAG CCAGGGGTAT GCAGGAAATG GGTTTTCTGT AGCTACAGAA 3001 ATGGGGTTGA GGGTTGGACC AAGGGACTAC CCAGGGGAAG TCTTACCTTC AGAGGACTCT 3061 GGAAAGGAGG CTGCAAGTTT TCATGGGTCA AGAATTCAGA GCCCAGTAGA GACAGCTTAT 3121 CTCTGTTCCA AGATGTCTGG GGCCTTGGTT GGAAGATTCA AAGGCTAGGA AACCAGGAGC 3181 CACCAAAAGC GTAACTGGGG CCAGAGGATC CACTTTCAAG GTGGCAAGTT GGTTCCCCCC 3241 ATGTGGCTGC TTGAGTATCC TCACATGGCG GCTCACATCC TTCCAAGTAA GCAATGCAAA 3301 AGGCCAAGAA AGATGCTGCA AAGATGTTAT GACCTAGCCT CAGAAATCAC ACACCATCCC 3361 TGCCACCATT AGTAAGAAGT CCAGCCCACG TCCAGGAGAA GAGGAAGCAG ATTCCTCCTT

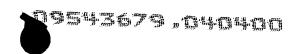
3423	TTGAAATGAA	A GAATATCAAG	TAATTCGGGG	GGCATATGAA	AGCCACCACA	CACCACAGGG
3481	L ATCTTTTAC	G AGCATACTTC	TTATACCATO	CACTGTAGTTC	CTTAAGACTC	AGGGGCAAAG
3541	CCTCACTTCC	TTAGCACCCA	GTGAAGACCA	CGCTTACTCC	CTCACTCAAC	CTCTTGCTAC
3601	TTCCCACCTC	CTCCTGTCCAA	CATCTAGTGT	CACTTTCCAG	AACATACCAZ	CACCTTCCCC
3661	AGTTCTGTGC	CTCTGCTCAG	GCTGTTCCCC	CTGCCTGGTC	CACTTGTCCT	COMPONE
3721	. CGGTCAAAAT	GCTTCTTATC	CTTCAAGACC	CAGCTCTAGA	GTCACCTCCA	ACCCCEMACC
3781	CACCAGCCC	CTCTCCAAGT		CAACCCCCT	CCTCCCTCCA	ACCCCTTACC
3841	CACCCTCTGG	GCCACAGTTG	TCACCACTCA	GGCAGGGCAG	CCCCCCCCC	GGGCACCCTC
3901	TCTCTTCTTC	CACTCACCC	1 CAGGAGICA	A GGCAGGGCAG	GGGCCGGGTG	GTGTCTTCTT
3961	CNTACNACCTA	THE AMERICAN	AGAGCICAGC	CACAGAGCAGA	CGCTCAAAAA	ACATTTAAAG
4021	TACAACCAAA	CCCACEEE	GGTCCCCCAG	TCTGGCTCCA	GGATGCCAGC	CAGCTGCTCC
4021	CACHOCHAG	CGGACTTTTC	CTGGGAAATC	CCAGAGGTGA	TGATCAGTAA	TCTCTCCCGT
4101	GACTUGTAGT	TCAGCTCTTC	CTCCATGAGC	CTGACTATCA	GTGGACCTTC	CAGAAAGAGC
4141	CCCTTTTCCI	TCTCTCACCC	ACAGCACAGG	GCACTGGGAA	AATGCCCAAT	GAGTCCTGCC
4201	TCTGGGTTGT	' GCTTTGGACT	TTTCAGTGTG	TCTCGCATCC	ACTCTTCAAC	TTGAATGTTG
4261	CAACAGCCAT	' GAAAAAAGAA	ATGCAAAGCG	ATTCAGGATG	AGAGCAATAC	CCTACTCCAA
4321	AGAAGGCAAC	ATAGAAGCTC	AGAGAGATCA	AGCAATTTGC	CCAAGACCAC	ACAGCTAGGA
4381	GTGGAACTCA	TGGCTGTCCA	AGCCCCATGC	CTCTGCTGAA	GGTAGAGATG	AATTACAGCA
4441	ACAAGTCTAG	AAAGGTGCCT	GCCCTATGGT	CTGTGAGTCT	TGCCTAAGAA	TGAAAGAGGA
4501	GCCAGTGGGT	TAAAGATGAG	GTCACCAACA	ACGGTGGTGT	TGGAGTTTAC	CACTGATAAT
4561	AAGGGTGCAA	AATGTAAATT	ACTAATGTTT	ATTGAGCCTA	GTGCAGTGCG	TGGGGCATTT
4621	TGCACATTGT	CTCTGATCCC	TATGACAACC	CTGAGAGGTA	GTGGTTTTAA	CTGCCATGTT
4681	ACAGGTGAGG	TCATTGTGGT	TCAAGGACGT	TAAGTAACTT	CCCCAGCGTG	ACACGGCTTA
4741	TAAGTAAGGC	AGCCAGGATG	TGAACCCAGT	AGGACTATCT	GGCTGCAAAG	TCCCCACCCC
4801	CCTCGCCATC	TGTATCCTCC	AATCACTTCA	GTGCTTTGCT	GCATAGAAGG	TAACCCAAAT
4861	CACGATGCCA	CAGACTGTCC	AGGAAGACAG	AAACTAGGCA	GATECCCTCC	CCATCCTCTC
4921	CAAGCCAGAC	TGGAATCTCC	AGGTCTGGAA	TGATATCATT	TTTCTCTCTTTT	AAMAAAMMAA
4981	CTCACCCACC	ACACGGCTTT	GAGAGGCTCA	AAGTTGACCA	ACTICICITII	AATAAATTAA
5041	GTTGATAAGG	AAGGAACGTG	AATCCTCCCA	TCACGGAAGC	ACTOCCTTGG	GAGGGCCCCG
5101	AACACTTGAG	ATTCTTACTC	CTCTTCCTCC	ATACTGGCCA	1 I CAAGGAGG	TCAAGGGTCC
5161	CTCGAGATGA	ACAACATCAC	CCCCCCCTTTT	AGAACCAAGG	AGGAAATATC	CCAGTGGAGC
5221	ACCCAGGGGA	CTCACCTCCA	CTCCACCCC	AGAACCAAGG	ATCAGAGGGG	GCTCTGTAAG
5281	CCCCTTCTCC	TTCTCCTCC	TCCTTCTCCC	GGCATGCAGA	AAACAGCCTG	AGCTCCACCT
53/1	CTCCTTCCCT	TCTCACCCC	CACCCCTAR	TAACCCCTGT	CTCCTTCTGG	ACCAGTTTTT
5401	ATCCTTCCCT	TGTGACCGCT	GAGGGGTAAC	AGCCTCTTTC	CACTTTCTTT	CAGCGCCGAC
5461	CCCCAACTC	1 CMCCCTTGCA	AGGGCCCACT	CTTAACGGGA	CCTTTGCCCA	GAGCAAATGC
5521	TTTCCTCCTCC	AGTGGCTGGG	CTGGCTCAAC	ACCATCCAGC	CCCCCTTCCT	CTGGGTGCTG
5521	1 CGTGCTGG	CCACCCTAGA	GAACATCTTT	GTCCTCAGCG	TCTTCTGCCT	GCACAAGAGC
5561	AGCTGCACGG	TGGCAGAGAT	CTACCTGGGG	AACCTGGCCG	CAGCAGACCT	GATCCTGGCC
5041	TGCGGGCTGC	CCTTCTGGGC	CATCACCATC	TCCAACAACT	TCGACTGGCT	CTTTGGGGAG
5/01	ACGCTCTGCC	GCGTGGTGAA	TGCCATTATC	TCCATGAACC	TGTACAGCAG	CATCTGTTTC
5/61	CTGATGCTGG	TGAGCATCGA	CCGCTACCTG	GCCCTGGTGA	AAACCATGTC	CATGGGCCGG
5821	ATGCGCGGCG	TGCGCTGGGC	CAAGCTCTAC	AGCTTGGTGA	TCTGGGGGTG	TACGCTGCTC
5881	CTGAGCTCAC	CCATGCTGGT	GTTCCGGACC	ATGAAGGAGT	ACAGCGATGA	GGGCCACAAC
5941	GTCACCGCTT	GTGTCATCAG	CTACCCATCC	CTCATCTGGG	AAGTGTTCAC	CAACATGCTC
6001	CTGAATGTCG	TGGGCTTCCT	GCTGCCCCTG	AGTGTCATCA	CCTTCTGCAC	GATGCAGATC
6061	ATGCAGGTGC	TGCGGAACAA	CGAGATGCAG	AAGTTCAAGG	AGATCCAGAC	GGAGAGGAGG
6121	GCCACGGTGC	TAGTCCTGGT	TGTGCTGCTG	CTATTCATCA	TCTGCTGGCT	GCCCTTCCAG
6181	ATCAGCACCT	TCCTGGATAC	GCTGCATCGC	CTCGGCATCC	TCTCCAGCTG	CCAGGACGAG
6241	CGCATCATCG	ATGTAATCAC	ACAGATCGCC	TCCTTCATGG	CCTACAGCAA	CAGCTGCCTC
6301	AACCCACTGG	TGTACGTGAT	CGTGGGCAAG	CGCTTCCGAA	AGAAGTCTTG	GGAGGTGTAC
6361	CAGGGAGTGT	GCCAGAAAGG	GGGCTGCAGG	TCAGAACCCA	TTCAGATGGA	GAACTCCATG
6421	GGCACACTGC	GGACCTCCAT	CTCCGTGGAA	CGCCAGATTC	ACAAACTGCA	GENCTCCCCN
6481	GGGAGCAGAC	AGTGAGCAAA	CGCCAGCAGG	GCTGCTGTGA	ATTTCTCTAA	CCATTCACCC
6541	ACAGTTGCTT	TTCAGCATGG	GCCCAGGAAT	GCCAAGGAGA	CAMCMAMCCA	CCACCURCCC
6601	AAATGAGTTG	ATGTCTCCGG	TAAAACACCC	GAGACTAATT	CCTCTAIGCA	CCAAMMMMACC
6661	AGGGAGCATG	GCTGTGAGGA	TERRECEDENT	TCACGCACAG	CCTGCCCTGC	CCAATTTTGC
6721	ACAGCATTAC	TCTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	TCCTCCCACA	CCTGAGCCAG	CCAAGGACTC	CAAAATCACA
6721	CACCACCCC	CCCCCCACCC	ACACCA COC	CUTGAGCCAG	CCTGCTCCTT	CCCAGGAGTG
68/1	CTCCCCCACC	AACACAAAC	AGAGGAGTGA	CTGAGCTTCC	CTCCCGTGTG	TTCTCCGTCC
6041	CTGCCCCAGC	AAGACAACTT	AGATCTCCAG	GAGAACTGCC	ATCCAGCTTT	GGTGCAATGG
0201	ACCAGAGAGAGA	AAGTGAGTTG	TTGCCCTGGG	TTTCTTTAAT	CTATTCAGCT	AGAACTTTGA
1969	AGGACAATTT	CTTGCATTAA	TAAAGGTTAA	GCCCTGAGGG	GTCCCTGATA	ACAACCTGGA
7021	GACCAGGATT	TTATGGCTCC	CCTCACTGAT	GGACAAGGAG	GTCTGTGCCA	AAGAAGAATC
1081	CAATAAGCAC	ATATTGAGCA	CTTGCTGTAT	ATGCAGTATT	GAGCACTGTA	GGCAAGAGGG

- 7141 AAGAAAGAG AGGAGCCATC TCCATCTTGA AGGAACTCAA AGACTCAAGT GGGAACGACT
- 7201 GGGCACTGCC ACCACCAGAA AGCTGTTCGA TGAGACGGTC GAGCAGGGTG CTGTGGGTGA
- 7261 TATGGACAGC AGAAGGGGGA GCCAGGTTCC AGCTCACCAA TACTATTGCA CACCACCTGT
- 7321 CCTGCCTC
- (2) INFORMATION FOR SEQ ID NO:2455:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2239 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2455:
 - 1 CTGCAGAAAA CAGCCTGAGC TCCACCTCGG CTTCTCCTTG CCCTGGCTGG TTGTCCTTAA
 - 61 CCCCTGTCTC CTTCTGGACC AGTTTTTGTC CTTCCCTTGT GACCCTGAGG GGTAACAGCC
 - 121 TCTTTTCCAC TTTCTTTCAG CGCCGACATG CTCAATGTCA CCTTGCAAGG GCCCACTCTT

 - 241 ATCCAGCCCC CCTTCCTCTG GGTGCTGTTC GTGCTGGCCA CCCTAGAGAA CATCTTTGTC
 - 301 CTCAGCGTCT TCTGCCTGCA CAAGAGCAGC TGCACGGTGG CAGAGATCTA CCTGGGGAAC
 - 361 CTGGCCGCAG CAGACCTGAT CCTGGCCTGC GGGCTGCCCT TCTGGGCCAT CACCATCTCC
 - 421 AACAACTTCG ACTGGCTCTT TGGGGAGACG CTCTGCCGCG TGGTGAATGC CATTATCTCC 481 ATGAACCTGT ACAGCAGCAT CTGTTTCCTG ATGCTGGTGA GCATCGACCG CTACCTGGCC
 - 541 CTGGTGAAAA CCATGTCCAT GGGCCGGATG CGCGGCGTGC GCTGGGCCAA GCTCTACAGC
 - 601 TTGGTGATCT GGGGGTGTAC GCTGCTCCTG AGCTCACCCA TGCTGGTGTT CCGGACCATG
 - 661 AAGGAGTACA GCGATGAGGG CCACAACGTC ACCGCTTGTG TCATCAGCTA CCCATCCCTC
 - 721 ATCTGGGAAG TGTTCACCAA CATGCTCCTG AATGTCGTGG GCTTCCTGCT GCCCCTGAGT
 - 781 GTCATCACCT TCTGCACGAT GCAGATCATG CAGGTGCTGC GGAACAACGA GATGCAGAAG
 - 841 TTCAAGGAGA TCCAGACGGA GAGGAGGGCC ACGGTGCTAG TCCTGGTTGT GCTGCTGCTA
- 901 TTCATCATCT GCTGGCTGCC CTTCCAGATC AGCACCTTCC TGGATACGCT GCATCGCCTC
- 961 GGCATCCTCT CCAGCTGCCA GGACGAGCGC ATCATCGATG TAATCACACA GATCGCCTCC
- 1021 TTCATGGCCT ACAGCAACAG CTGCCTCAAC CCACTGGTGT ACGTGATCGT GGGCAAGCGC
- 1081 TTCCGAAAGA AGTCTTGGGA GGTGTACCAG GGAGTGTGCC AGAAAGGGGG CTGCAGGTCA
- 1141 GAACCCATTC AGATGGAGAA CTCCATGGGC ACACTGCGGA CCTCCATCTC CGTGGAACGC
- 1201 CAGATTCACA AACTGCAGGA CTGGGCAGGG AGCAGACAGT GAGCAAACGC CAGCAGGGCT
- 1261 GCTGTGAATT TGTGTAAGGA TTGAGGGACA GTTGCTTTTC AGCATGGGCC CAGGAATGCC
- 1321 AAGGAGACAT CTATGCACGA CCTTGGGAAA TGAGTTGATG TCTCCGGTAA AACACCGGAG
- 1381 ACTAATTCCT GNCCTGCCCA ATTTTGCAGG GAGCATGGCT GTGAGGATGG GGTGAACTCA
- 1441 CGCACAGCCA AGGACTCCAA AATCACAACA GCATTACTGT TCTTATTTGC TGCCACACCT
- 1501 GAGCCAGCCT GCTCCTTCCC AGGAGTGGAG GAGGCCTGGG GGCAGGGAGA GGAGTGACTG
- 1561 AGCTTCCCTC CCGTGTGTTC TCCGTCCCTG CCCCAGCAAG ACAACTTAGA TCTCCAGGAG
- 1621 AACTGCCATC CAGCTTTGGT GCAATGGCTG AGTGCACAAG TGAGTTGTTG CCCTGGGTTT 1681 CTTTAATCTA TTCAGCTAGA ACTTTGAAGG ACAATTTCTT GCATTAATAA AGGTTAAGCC
- 1741 CTGAGGGGTC CCTGATAACA ACCTGGAGAC CAGGATTTTA TGGCTCCCCT CACTGATGGA
- 1801 CAAGGGAGGT CTGTGCCAAA GAAGAATCCA ATAAGCACAT ATTGAGCACT TGCTGTATAT
- 1861 GCAGTATTGA GCACTGTAGG CAAGAGGGAA GAAAGAGAAG GAGCCATCTC CATCTTGAAG
- 1921 GAACTCAAAG ACTCAAGTGG GAACGACTGG CACTGCCACC ACCAGAAAGC TGTTCGACGA
- 1981 GACGGTCGAG CAGGGTGCTG TGGGTGATAT GGACAGCAGA AGGGGGAGAC CAAGGTTCCA
- 2041 GCTCAACCAA TAACTATTGC ACAACCACCT GTCCCTGCCT CAGTTCCCTC TTCTGTAACA
- 2101 TGAAGTCGTT GTGAGGGTTA AAGGCAGTAA CAGGTATAAA GTACTTAGAA AAGCAAAGGG
- 2161 TGCTACGTAC ATGTGAGGCA TCATTACGCA GACGTAACTG GGATATGTTT ACTATAAGGA
- 2221 AAAGACACTG AGGTCTAGA
- (2) INFORMATION FOR SEQ ID NO:2456:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2478 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2456:
 - 1 TGATCCTATC ACAACCTGAG AGTAGTTTTT ACTCCATTTA CAGGTGAGGT CATTGTGGTT
 - 61 CAAGGACGTT AAGTAACTTC CCCAGCTCAC ACGGCTTATA AGTAAGGCAG CCAGGATGTG
 - 121 AACCCAGTAG GACTATCTGG CTGCAAAGTC CCCACCCTCC CTCGCCATCT GTATCCTCCA 181 ATCATCTTCA GTGCTTTGCT GATAGAAGGT ACGGAAATAC GATGCCACAG ACTGTCCAGG
 - 241 AAGACAGAAA CTAGGCAGAT GGGCTGGCCA TGGTCTCCAA GCCAGACTGG AATCTCCAGG

301	TCTGGAATGA	TATCATTTTT	CTCTTTTAAT	AAATTAACTC	ACCCACCACA	CGGCTTTGAG
361	AGGCTCAAAG	GTGACCAACT	CCCTTGGGAG	GGCCCCGGTT	GATAAGGAAG	GAATGTGAAT
421	CCTCCCATCA	CGGAAGCTTC	AAGGAGGTCA	AGGGTCCAAC	ACTTGAGATT	GTTAGTGCTG
481	TTGGTGGATA	CTGCAGAATA	TCCAGTGGAG	CCTCAGATGA	AGAACATGAG	GCCCCGTTTA
541	GATCCAAGGA	TCAGAGGGGG	CTCTGTAAGA	CCCAGGGGAG	TCAGGTGCAC	TGGAGCGCGG
601	GCTGCAGAAA	ACAGCCTGAG	CTCCACCTCG	GCTTCTCCTT	GCCCTGGCTG	GTTGTCCTTA
661	ACCCCTGTCT	CCTTCTGGAC	CAGTTTTTGT	CCTTCCCTTG	TGACCTGAGG	GGTAACAGCC
721	TCTTTTCCAC	TTTCTTTCAG	CGCCGACATG	CTCAATGTCA	CCTTGCAAGG	GCCCACTCTT
781	AACGGGACCT	TTGCCCAGAG	CAAATGCCCC	CAAGTGGAGT	GGCTGGGCTG	GCTCAACACC
841	ATCCAGCCCC	CCTTCCTCTG	GGTGCTGTTC	GTGCTGGCCA	CCCTAGAGAA	CATCTTTGTC
901	CTCAGCGTCT	TCTGCCTGCA	CAAGAGCAGC	TGCACGGTGG	CAGAGATCTA	CCTGGGGAAC
961	CTGGCCGCAG	CAGACCTGAT	CCTGGCCTGC	GGGCTGCCCT	TCTGGGCCAT	CACCATCTCC
	AACAACTTCG		TGGGGAGACG			CATTATCTCC
1081		ACAGCAGCAT			GCATCGACCG	CTACCTGGCC
1141		CCATGTCCAT			GCTGGGCCAA	GCTCTACAGC
1201	TTGGTGATCT	GGGGGTGTAC		•	TGCTGGTGTT	CCGGACCATG
1261	AAGGAGTACA		CCACAACGTC		TCATCAGCTA	CCCATCCCTC
	ATCTGGGAAG		CATGCTCCTG	AATGTCGTGG	GCTTCCTGCT	GCCCCTGAGT
1381	GTCATCACCT	TCTGCACGAT	GCAGATCATG		GGAACAACGA	GATGCAGAAG
1441		TCCAGACGGA			TCCTGGTTGT	GCTGCTGCTA
1501		GCTGGCTGCC	CTTCCAGATC		TGGATACGCT	GCATCGCCTC
		CCAGCTGCCA			TAATCACACA	
1621		ACAGCAACAG				
1681		AGTCTTGGGA				
		AGATGGAGAA				
1801		AACTGCAGGA				
	GCTGTGAATT	TGTGTAAGGA		GTTGCTTTTC		
	AAGGAGACAT			TGAGTGTTGA		AAAACACCGG
1981	AGACTAATTC			GGGAGCATGG	CTGTGAGGAT	GGGGTGAACT
2041		CAAGGACTCC			GTTCTTATTT	GCTGCCACAC
2101	CTGAGCCAGC			AGGAGGCCTG		AGGAGTGACT
2161	GAGCTTCCCT	CCCGTGTGTT				ATCTCCAGGA
2221	GAACTGCCAT	CCACGTTTGG		GAGTGCACAA		GCCCTGGGTT
2281		ATCAGCTAGA			GCATTAATAA	AGGTTAAGCC
2341	CTGAGGGGTC			CCAGGATTTT		TCACTGATGG
		CTGTGCCAAA	GAAGAATCAA	TAAGCACATA	TGAGCACTTC	TGTATATCAG
2461	TATTGAGCAC	TGTAGGCA				

- (2) INFORMATION FOR SEQ ID NO:2457:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2457:
 - 1 ATGTTCTCTC CCTGGAAGAT ATCAATGTTT CTGTCTGTTT GTGAGGACTC CGTGCCCACC 61 ACGGCCTCTT TCAGCGCCGA CATGCTCAAT GTCACCTTGC AAGGGCCCAC TCTTAACGGG 121 ACCTTTGCCC AGAGCAAATG CCCCCAAGTG GAGTGGCTGG GCTGGCTCAA CACCATCCAG 181 CCCCCCTTCC TCTGGGTGCT GTTCGTGCTG GCCACCCTAG AGAACATCTT TGTCCTCAGC 241 GTCTTCTGCC TGCACAAGAG CAGCTGCACG GTGGCAGAGA TCTACCTGGG GAACCTGGCC 301 GCAGCAGACC TGATCCTGGC CTGCGGGCTG CCCTTCTGGG CCATCACCAT CTCCAACAAC 361 TTCGACTGGC TCTTTGGGGA GACGCTCTGC CGCGTGGTGA ATGCCATTAT CTCCATGAAC 421 CTGTACAGCA GCATCTGTTT CCTGATGCTG GTGAGCATCG ACCGCTACCT GGCCCTGGTG 481 AAAACCATGT CCATGGGCCG GATGCGCGGC GTGCGCTGGG CCAAGCTCTA CAGCTTGGTG 541 ATCTGGGGGT GTACGCTGCT CCTGAGCTCA CCCATGCTGG TGTTCCGGAC CATGAAGGAG 601 TACAGCGATG AGGGCCACAA CGTCACCGCT TGTGTCATCA GCTACCCATC CCTCATCTGG 661 GAAGTGTTCA CCAACATGCT CCTGAATGTC GTGGGCCTTCC TGCTGCCCCT GAGTGTCATC 721 ACCTTCTGCA CGATGCAGAT CATGCAGGTG CTGCGGAACA ACGAGATGCA GAAGTTCAAG 781 GAGATCCAGA CGGAGAGGAG GGCCACGGTG CTAGTCCTGG TTGTGCTGCT GCTATTCATC 841 ATCTGCTGGC TGCCCTTCCA GATCAGCACC TTCCTGGATA CGCTGCATCG CCTCGGCATC 901 CTCTCCAGCT GCCAGGACGA GCGCATCATC GATGTAATCA CACAGATCGC CTCCTTCATG 961 GCCTACAGCA ACAGCTGCCT CAACCCACTG GTGTACGTGA TCGTGGGCAA GCGCTTCCGA



- 1021 AAGAAGTCTT GGGAGGTGTA CCAGGGAGTG TGCCAGAAAG GGGGCTGCAG GTCAGAACCC
- 1081 ATTCAGATGG AGAACTCCAT GGGCACACTG CGGACCTCCA TCTCCGTGGA ACGCCAGATT
- 1141 CACAAACTGC AGGACTGGGC AGGGAGCAGA CAGTGAGCAA ACGCCAGCAG GGCTGCTGTG
- 1201 AATTTGTGTA AGGATTGAGG GACAGTTGCT T

(2) INFORMATION FOR SEQ ID NO:2458:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2458:
 - 1 ATGTTCTCTC CCTGGAAGAT ATCAATGTTT CTGTCTGTTC GTGAGGACTC CGTGCCCACC
- 61 ACGGCCTCTT TCAGCGCCGA CATGCTCAAT GTCACCTTGC AAGGGCCCAC TCTTAACGGG
- 121 ACCTTTGCCC AGAGCAAATG CCCCCAAGTG GAGTGGCTGG GCTGGCTCAA CACCATCCAG
- 181 CCCCCCTTCC TCTGGGTGCT GTTCGTGCTG GCCACCCTAG AGAACATCTT TGTCCTCAGC
- 241 GTCTTCTGCC TGCACAAGAG CAGCTGCACG GTGGCAGAGA TCTACCTGGG GAACCTGGCC
- 301 GCAGCAGACC TGATCCTGGC CTGCGGGCTG CCCTTCTGGG CCATCACCAT CTCCAACAAC
- 361 TTCGACTGGC TCTTTGGGGA GACGCTCTGC CGCGTGGTGA ATGCCATTAT CTCCATGAAC
- 421 CTGTACAGCA GCATCTGTTT CCTGATGCTG GTGAGCATCG ACCGCTACCT GGCCCTGGTG
- 481 AAAACCATGT CCATGGGCCG GATGCGCGGC GTGCGCTGGG CCAAGCTCTA CAGCTTGGTG
- 541 ATCTGGGGGT GTACGCTGCT CCTGAGCTCA CCCATGCTGG TGTTCCGGAC CATGAAGGAG
- 601 TACAGCGATG AGGGCCACAA CGTCACCGCT TGTGTCATCA GCTACCCATC CCTCATCTGG
- 661 GAAGTGTTCA CCAACATGCT CCTGAATGTC GTGGGCTTCC TGCTGCCCCT GAGTGTCATC
- 721 ACCTTCTGCA CGATGCAGAT CATGCAGGTG CTGCGGAACA ACGAGATGCA GAAGTTCAAG
- 781 GAGATCCAGA CGGAGAGGAG GGCCACGGTG CTAGTCCTGG TTGTGCTGCT GCTATTCATC 841 ATCTGCTGGC TGCCCTTCCA GATCAGCACC TTCCTGGATA CGCTGCATCG CCTCGGCATC
- 901 CTCTCCAGCT GCCAGGACGA GCGCATCATC GATGTAATCA CACAGATCGC CTCCTTCATG
- 961 GCCTACAGCA ACAGCTGCCT CAACCCACTG GTGTACGTGA TCGTGGGCAA GCGCTTCCGA
- 1021 AAGAAGTCTT GGGAGGTGTA CCAGGGAGTG TGCCAGAAAG GGGGCTGCAG GTCAGAACCC
- 1081 ATTCAGATGG AGAACTCCAT GGGCACACTG CGGACCTCCA TCTCCGTGGA ACGCCAGATT
- 1141 CACAAACTGC AGGACTGGGC AGGGAGCAGA CAGTGAGCAA ACGCCAGCAG GGCTGCTGTG
- 1201 AATTTGTGTA AGGATTGAGG GACAGTTGCT T

(2) INFORMATION FOR SEQ ID NO: 2459:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2459:
 - 1 GCCCTTCAAA GATGAGCTGT TCCCGCCGCC ACTCCAGCTC TGGCTTCTGG GCTCCGAGGA
 - 61 GGGGTGGGGA CGGTGGGGAC ATCAGGCTGC CCCGCAGTAC CAGGGAGCGA CTGAAGTGCC
- 121 CATGCCGCTT GCTCCGGAGA AGGTGGGTGC CGGGCAGGGG CTGCTCCAGC CGCCTCACCT
- 181 CTGCTGGGAG GACAAACTGT CCCAGCACAG AGGGAGGGAG GGAGGGCAGG CAGCGGGGAG
- 241 AAGTTTCCCT GTGGTCGTGG GGAGTT

(2) INFORMATION FOR SEQ ID NO: 2460:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2460:
 - 1 GCCCTTCAAA GATGAGCTGT TCCCGCCGCC ACTCCAGCTC TGGCTTCTGG GCTCCGAGGA
- 61 GGGGTGGGA CGGTGGTGAC GGTGGGGACA TCAGGCTGCC CCGCAGTACC AGGGAGCGAC
- 121 TGAAGTGCCC ATGCCGCTTG CTCCGGAGAA GGTGGGTGCC GGGCAGGGGC TGCTCCAGCC
- 181 GCCTCACCTC TGCTGGGAGG ACAAACTGTC CCAGCACAGA GGGAGGGAGG GAGGGCAGGC
- 241 AGCGGGGAGA AGTTTCCCTG TGGTCGTGGG GAGTT

(2) INFORMATION FOR SEQ ID NO:2461:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1464 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2461:
- 1 GAGCTCTTCA ATATTTTAGT GAAAGCTATA GATGAGGCTC CATAGGGGAT AAAGCACAGA
- 61 CACACCTTTT CAGAGGGCTT GTGGACTCTG GGCAGCCTGT CCATAGACCT CTGTCCCCAA
- 121 CTGGCAAGTC AGGAAACTCC AGATTAAGGA GCCCCAATGT GGTTGAACAG CCAGGTGCAC
- 181 AGATGAGTCA ACCACACAGC CAGGCCAGGG AGGGCCTTCA CTCAAGAGCC TACAGCCAGT
- 241 TCACAGCCAA GCCAGGGCTA GCGCCAGGCC ACCCATAAAC TGATCTGAGA CTCTGTTTCC
- 301 CTGTCTCCAT GATGATGGGA TCAGGCTTGA TTGCTGGTTT GTAGGCTTGT TATGAATCAA
- 361 GTCACAGGGA AGAGGAGCTG ATGGGCTGGG GGGACGTCCT CTGGCCCTCC TGTCTCTTCC
- 421 CCAGATCCAC TGGGCCCACT CTTATCTGTT CTCTTCTGAA GGAAGGGTTT TAAGGCTTCA
- 481 AAAAAAATG TTTTGAAAGT CCCTGCCCTT TCCAGCTCCT ACCGTCTCAG CCCTGGGAGT 541 GTAAAGTGCT GCAGATAGTT AGTAAGTCTT TGAGCAAAAC TGAGAAAGCC AGCCTGAGCC
- 601 TTGACATGGG AGAAACCTCC GCCATACATC TCCGAAGAAA CGGCCGCGTG TCTCAGGGGA
- 661 GCGCAAACAC CCGTACCCAG GAAACAGGAC AGCTTCTGCC ACTGTCGCCC TTGGGAGCCG
- 721 TACGTGGCAT GACAAAGAAA TCCCAGGACT CCGCCTGCCC ACCTGGCCAC CCTCTGTTTA
- 781 CACCTTCCGC GTAAACGCCC ACTGTTTACA TCCAAAACTC AGACACAAAA TAACCACCTC
- 841 AAGAAGATAA ATAATGATAA GAAATAAATG TTACGCGAGG CAAATTTATT CACATGGGGC
- 901 TTCCCAGGCC ACTTTGTGGT CAGCCGGGAG GGACGTTTTT GCCGTCCCAC GACTCCAACG
- 961 GGCAGCCGGG CCTACGCAAA CATGGAAATC TTCCAAGAGC CTCCCTGGCC CCCAGGGCTC 1021 AGAGGGTGGC AGAGCGGAGA GCGAAGGTGG CCGCAGCCTT CCCGGCCCCA CAGCCAGCCT
- 1021 AGAGGGTGGC AGAGCGGAGA GCGAAGGTGG CCGCAGCCTT CCCGGCCCCA CAGCCAGCCT
 1081 GGCTCCAGCT GGGCAGGAGT GCAGAGGTCA, GCTGGAGGCG AGGGGGAAGT GCCCAGGAGG
- Total decreased added of example of the control of
- 1141 CTGATGACAT CACTACCCAG CCCTTCAAAG ATGAGCTGTT CCCGCCGCCA CTCCAGCTCT
- 1201 GGCTTCTGGG CTCCGAGGAG GGGTGGGGAC GGTGGTGACG GTGGGGACAT CAGGCTGCCC
- 1261 CGCAGTACCA GGGAGCGACT GAAGTGCCCA TGCCGCTTGC TCCGGAGAAG GTGGGTGCCG 1321 GGCAGGGGCT GCTCCAGCCG CCTCACCTCT GCTGGGAGGA CAAACTGTCC CAGCACAGAG
- 1381 GGAGGGAGGG AGGCAGGCA GCGGGGAGAA GTTTCCCTGT GGTCGTGGGG AGTTGGGAAA
- 1441 AGTTCCCTTC CTTCCGGAGG GAGG
- (2) INFORMATION FOR SEQ ID NO:2462:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1426 base pairs(B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2462:
 - 1 CTTTGTGAAG AAGGAATTGG CAACACTGAA ACCTCCAGAA CAAAGGCTGT CACTAAGGTC
 - 61 CCGCTGCCTT GATGGATTAT ACACTTGACC TCAGTGTGAC AACAGTGACC GACTACTACT
 - 121 ACCCTGATAT CTTCTCAAGC CCCTGTGATG CGGAACTTAT TCAGACAAAT GGCAAGTTGC 181 TCCTTGCTGT CTTTTATTGC CTCCTGTTTG TATTCAGTCT TCTGGGAAAC AGCCTGGTCA
 - 241 TCCTGGTCCT TGTGGTCTGC AAGAAGCTGA GGAGCATCAC AGATGTATAC CTCTTGAACC
 - 241 ICCIGGICCI IGIGGICIGE ANGANGCIGA GGAGCAICAE AGAIGIAIAE CICIIGAAC
 - 301 TGGCCCTGTC TGACCTGCTT TTTGTCTTCT CCTTCCCCTT TCAGACCTAC TATCTGCTGG
 - 361 ACCAGTGGGT GTTTGGGACT GTAATGTGCA AAGTGGTGTC TGGCTTTTAT TACATTGGCT
 - 421 TCTACAGCAG CATGTTTTTC ATCACCCTCA TGAGTGTGGA CAGGTACCTG GCTGTTGTCC
 - 481 ATGCCGTGTA TGCCCTAAAG GTGAGGACGA TCAGGATGGG CACAACGCTG TGCCTGGCAG
 - 541 TATGGCTAAC CGCCATTATG GCTACCATCC CATTGCTAGT GTTTTACCAA GTGGCCTCTG
 601 AAGATGGTGT TCTACAGTGT TATTCATTTT ACAATCAACA GACTTTGAAG TGGAAGATCT
 - 661 TCACCAACTT CAAAATGAAC ATTTTAGGCT TGTTGATCCC ATTCACCATC TTTATGTTCT
 - 721 GCTACATTAA AATCCTGCAC CAGCTGAAGA GGTGTCAAAA CCACAACAAG ACCAAGGCCA
 - 781 TCAGGTTGGT GCTCATTGTG GTCATTGCAT CTTTACTTTT CTGGGTCCCA TTCAACGTGG
 - 841 TTCTTTTCCT CACTTCCTTG CACAGTATGC ACATCTTGGA TGGATGTAGC ATAAGCCAAC
 - 901 AGCTGACTTA TGCCACCCAT GTCACAGAAA TCATTTCCTT TACTCACTGC TGTGTGAACC
- 961 CTGTTATCTA TGCTTTTGTT GGGGAGAAGT TCAAGAAACA CCTCTCAGAA ATATTTCAGA
- 1021 AAAGTTGCAG CCAAATCTTC AACTACCTAG GAAGACAAAT GCCTAGGGAG AGCTGTGAAA
- 1081 AGTCATCATC CTGCCAGCAG CACTCCTCCC GTTCCTCCAG CGTAGACTAC ATTTTGTGAG
 1141 GATCAATGAA GACTAAATAT AAAAAACATT TTCTTGAATG GCATGCTAGT AGCAGTGAGC
- 1201 AAAGGTGTGG GTGTGAAAGG TTTCCAAAAA AAGTTCAGCA TGAAGGATGC CGTGTGTGTT
- 1261 GTTGCCAACA CTTGGAACAC AATGACTGGA GACATAGTTG TGCATGCCTG GCACAACATC
- 1321 AAGCCTGTGA TTGTGTTTAT TGATGATGTT GAACAAGTGG TGGCTTTGAG GGATTCTGTA
- 1381 TGCCAAGTGG AAAAAAAAGA TGTCTCCGGA ATTCGACAGG TTATCA
- (2) INFORMATION FOR SEQ ID NO:2463:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5161 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2463:

1 TTTCATCTCT CCGGGCTTAT TTGCTGGTTT CTCCGAATGC GGGCCTTGTC TGGTTCACGC 61 TGGATCCCCA ACGCCTAGAA CAGTGCGTGG CACGCAGTTC GTCCTTCTAT AAATATCGGA 121 CTAAATGCAT CTCTGTGATG GTAATACCCA CACGGTGTTG TGAGAATGAA TGAGTGATTC 181 TGTGCAAGTT CCTAGTGATC TGTTACAAAA AGTACTGGTC GCTAAATTAC TCTTATAATA 241 AAGCATACTT TTAGGATAAT AAAGCACTAT TCGCGAATTG GTTACCGCTA TTATGAAATT 301 ACTGAGCAAT ACATATCTAC ATCTGATCAG TCTCCAGAAT TATGCCAAAT CCTACCTTCT 361 TCTGAAAGTA TCTCCTAATT ATCTGCACCT GACCCTAGTG ATGCTGTGAA TGTGCAAGTA 421 TAGCTACATC CTCCGAAGGA AGGATCTTTA CTCCTTTTAC CTCCTGAATG GGCTGCGTCT 481 GCTGAAAGCG CGGGGGAATG GGCGGTTGGA AGCTTGGCCC TACTTCCAGC ATTGCCGCCT 541 ACTGGTTGGG TTACTCCAGC AAGTCACTCC CCTTCCCTGG GCCTCAGTGT CTCTACTGTA 601 GCATTCCCAG GTCTGGAATT CCATCCACTT TAGCAAGGAT GGACGCGCCA CAGAGAGACG 661 CGTTCCTAGC CCGCGCTTCC CACCTGTCTT CAGGCGCATC CCGCTTCCCT CAAACTTAGG 721 AAATGCCTCT GGGAGGTCCT GTCCGGCTCC GGACTCACTA CCGACCACCC GCAAACAGCA 781 GGGTCCCCTG GGCTTCCCAA GCCGCGCACC TCTCCGCCCC GCCCCTGCGC CCTCCTTCCT 841 CGCGTCTGCC CCTCTCCCCC ACCCGCCTT CTCCCTCCCC GCCCCAGCGG CGCATGCGCC 901 GCGCTCGGAG CGTGTTTTTA TAAAAGTCCG GCCGCGCCA GAAACTTCAG TTTGTTGGCT 961 GCGGCAGCAG GTAGCAAAGT GACGCCGAGG GCCTGAGTGC TCCAGTAGCC ACCGCATCTG 1021 GAGAACCAGC GGTTACCATG GAGGGGATCA GTGTAAGTCC AGTTTCAACC TGCTTTGTCA 1081 TAAATGTACA AACGTTTGAA CTTAGAGCGC AGCCCCTCTC CGAGCGGCCA GAAGCGGCCA 1141 GGACATTGGA GGTACCCGTA CTCCAAAAAA GGGTCACCGA AAGGAGTTTT CTTGACCATG 1201 CCTATATAGT GCGGGTGGGT GGGGGGGGAG CAGGATTGGA ATCTTTTCT CTGTGAGTCG 1261 AGGAGAAACG ACTGGAAAGA GCGTTCCAGT GGCTGCATGT GTCTCCCCCT TGAGTCCCGC 1321 CGCGCGCGC GGCTTGCACG CTGTTTGCAA ACGTAAGAAC ATTCTGTGCA CAAGTGCAGA 1381 GAAGGCGTGC GCGCTGCCTC GGGACTCAGA CCACCGGTCT CTTCCTTGGG GAAGCGGGGA 1441 TGTCTTGGAG CGAGTTACAT TGTCTGAATT TAGAGGCGGA GGGCGGCGTG CCTGGGCTGA 1501 CTTCCCAGGA GGAGATTGCG CCCGCTTTAA CTTCGGGGTT AAGCGCCTGG TGACTGTTCT 1561 TGACACTGGG TGCGTGTTTG TTAAACTCTG TGCGGCCGAC GGAGCTGTGC CAGTCTCCCA 1621 GCACAGTAGG CAGAGGCCGG GAGAGGCCGG TGGACCCACC GCGCCGATCC TCTGAGGGGA 1681 TCGAGTGGTG GCAGCAGCTA GGAGTTGATC CGCCCGCGCG CTTTGGGTTT GAGGGGGAAA 1741 CCTTCCCGCC GTCCGAAGCG CGCCTCTTCC CCACGGCCGC GAGTGGGTCC TGCAGTTCGA 1801 GAGTTTGGGG TCGTGCAGAG GTCAGCGGAG TGGTTTGACC TCCCCTTTGA CACCGCGCAG 1861 CTGCCAGCCC TGAGATTTGC GCTCCGGGGA TAGGAGCGGG TACGGGGTGA GGGGCGGGG 1921 CGGTTAAGAC CGCACCTGGG CTGCCAGGTC GCCGCCGCA AGACTGGCAG GTGCAAGTGG 1981 GGAAACCGTT TGGCTCTCTC CGAGTCCAGT TGTGATGTTT AACCGTCGGT GGTTTCCAGA 2041 AACCTTTTGA AACCCTCTTG CTAGGGAGTT TTTGGTTTCC TGCAGCGGCG CGCAATTCAA 2101 AGACGCTCGC GGCGGAGCCG CCCAGTCGCT CCCCAGCACC CTGTGGGACA GAGCCTGGCG 2161 TGTCGCCCAG CGGAGCCCCT GCAGCGCTGC TTGCGGGCGG TTGGCGTGGG TGTAGTGGGC 2221 AGCCGCGGCG GCCCGGGGCT GGACGACCCG GCCCCCCGCG TGCCCACCGC CTGGAGGCTT 2281 CCAGCTGCCC ACCTCCGGCC GGGTTAACTG GATCAGTGGC GGGGTAATGG GAAGCCACCC 2341 GGGAGAGTGA GGAAATGAAA CTTGGGGCGA GGACCACGGG TGCAGACCCC GTTACCTTCT 2401 CCACCCAGGA AAATGCCCCG CTCCCTAACG TCCCAAACGC GCCAAGTGAT AAACACGAGG 2461 ATGCCAGAG ACCCACACA CGGAGGAGCG CCCGCTTGGG GGAGGAGGTG CCGTTTGTTC 2521 ATTTTCTGAC ACTCCCGCCC AATATACCCC AAGCACCGAA GGGCCTTCGT TTTAAGACCG 2581 CATTCTCTTT ACCCACTACA AGTTGCTTGA AGCCCAGAAT GGTTTGTATT TAGGCAGGCG 2641 TGGGAAAATT AAGTTTTTGC GCTTTAGGAG AATGAGTCTT TGCAACGCCC CCGCCCTCCC 2701 CCCGTGATCC TCCCTTCTCC CCTCTTCCCT CCCTGGGCGA AAAACTTCTT ACAAAAAGTT 2761 AATCACTGCC CCTCCTAGCA GCACCCACCC CACCCCCCAC GCCGCCTGGG AGTGGCCTCT 2821 TTGTGTGTAT TTTTTTTTC CTCCTAAGGA AGGTTTTTTT TCTTCCCTCT AGTGGGCGGG 2881 GCAGAGGAGT TAGCCAAGAT GTGACTTTGA AACCCTCAGC GTCTCAGTGC CCTTTTGTTC 2941 TAAACAAAGA ATTTTGTAAT TGGTTCTACC AAAGAAGGAT ATAATGAAGT CACTATGGGA 3001 AAAGATGGGG AGGAGAGTTG TAGGATTCTA CATTAATTCT CTTGTGCCCT TAGCCCACTA 3061 CTTCAGAATT TCCTGAAGAA AGCAAGCCTG AATTGGTTTT TTAAATTGCT TTAAAAATTT 3121 TTTTTAACTG GGTTAATGCT TGCTGAATTG GAAGTGAATG TCCATTCCTT TGCCTCTTTT 3181 GCAGATATAC ACTTCAGATA ACTACACCGA GGAAATGGGC TCAGGGGACT ATGACTCCAT 3241 GAAGGAACCC TGTTTCCGTG AAGAAAATGC TAATTTCAAT AAAATCTTCC TGCCCACCAT 3301 CTACTCCATC ATCTTCTTAA CTGGCATTGT GGGCAATGGA TTGGTCATCC TGGTCATGGG 3361 TTACCAGAAG AAACTGAGAA GCATGACGGA CAAGTACAGG CTGCACCTGT CAGTGGCCGA

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3421 CCTCCTCTTT GTCATCACGC TTCCCTTCTG GGCAGTTGAT GCCGTGGCAA ACTGGTACTT
3481 TGGGAACTTC CTATGCAAGG CAGTCCATGT CATCTACACA GTCAACCTCT ACAGCAGTGT
3541 CCTCATCCTG GCCTTCATCA GTCTGGACCG CTACCTGGCC ATCGTCCACG CCACCAACAG
3601 TCAGAGGCCA AGGAAGCTGT TGGCTGAAAA GGTGGTCTAT GTTGGCGTCT GGATCCCTGC
3661 CCTCCTGCTG ACTATTCCCG ACTTCATCTT TGCCAACGTC AGTGAGGCAG ATGACAGATA
3721 TATCTGTGAC CGCTTCTACC CCAATGACTT GTGGGTGGTT GTGTTCCAGT TTCAGCACAT
3781 CATGGTTGGC CTTATCCTGC CTGGTATTGT CATCCTGTCC TGCTATTGCA TTATCATCTC
3841 CAAGCTGTCA CACTCCAAGG GCCACCAGAA GCGCAAGGCC CTCAAGACCA CAGTCATCCT
3901 CATCCTGGCT TTCTTCGCCT GTTGGCTGCC TTACTACATT GGGATCAGCA TCGACTCCTT
3961 CATCCTCCTG GAAATCATCA AGCAAGGGTG TGAGTTTGAG AACACTGTGC ACAAGTGGAT
4021 TTCCATCACC GAGGCCCTAG CTTTCTTCCA CTGTTGTCTG AACCCCATCC TCTATGCTTT
4081 CCTTGGAGCC AAATTTAAAA CCTCTGCCCA GCACGCACTC ACCTCTGTGA GCAGAGGGTC
4141 CAGCCTCAAG ATCCTCTCCA AAGGAAAGCG AGGTGGACAT TCATCTGTTT CCACTGAGTC
4201 TGAGTCTTCA AGTTTTCACT CCAGCTAACA CAGATGTAAA AGACTTTTTT TTATACGATA
4261 AATAACTTTT TTTTAAGTTA CACATTTTTC AGATATAAAA GACTGACCAA TATTGTACAG
4321 TTTTTATTGC TTGTTGGATT TTTGTCTTGT GTTTCTTTAG TTTTTGTGAA GTTTAATTGA
4381 CTTATTTATA TAAATTTTTT TTGTTTCATA TTGATGTGTG TCTAGGCAGG ACCTGTGGCC
4441 AAGTTCTTAG TTGCTGTATG TCTCGTGGTA GGACTGTAGA AAAGGGAACT GAACATTCCA
4501 GAGCGTGTAG TGAATCACGT AAAGCTAGAA ATGATCCCCA GCTGTTTATG CATAGATAAT
4561 CTCTCCATTC CCGTGGAACG TTTTTCCTGT TCTTAAGACG TGATTTTGCT GTAGAAGATG
4621 GCACTTATAA CCAAAGCCCA AAGTGGTATA GAAATGCTGG TTTTTCAGTT TTCAGGAGTG
4681 GGTTGATTTC AGCACCTACA GTGTACAGTC TTGTATTAAG TTGTTAATAA AAGTACATGT
4741 TAAACTTACT TAGTGTTATG TTCTGATTTC TGTTGACATT CTTTTGGCTA GTAGAAGACA
4801 AAAGTAATAC ATTTATGGTA TGCAAAGCAC TATCCTAGGT ATTTCATTGT AATATTTTAC
4861 TTACCCCTTA TCACAACTCT GATAGATTCT GCTTCTGTTA CTAATTACAT TTTATAGAAG
4921 AGGAAACGGA GGCACAGAAA GCCTAAGTAA CTTGGTTAAA GGCATGTAGT AAGTATCAAA
4981 TCCTGTATTT TAAACCAGGT AACATGACTT AACGAATCTG AAGCCTTCAC CACTTTAAAT
5041 TCAAATGGAA GTTTAGAAAT GGCCAGCCAG CACCTATTTG TATGAAAGGT CATCTTTCAG
5101 AGGATAAGCA TGTATAAAGA AGAAAAGGTA TGCAGTCGTG TTTGGATTTT ACTCCACCAT
5161 C
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(2) INFORMATION FOR SEQ ID NO: 2464:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 877 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2464:
- 1 AGGATGATGG TGATGGGGAA CTAAATGGGG AAATATGGAA GGTCACAGGA AAAGTTAACA
- 121 AAAGAAAGAA AAAGTCTCCA AGAATGGTTT GGACAGCCAA AATGAATACT TATAGTCACG
- 181 TATACCTGCT CACTCCTGAC GCTTCACTCA CACACAGCAC AGGATCTGGT GAGGCTATCA
- 241 CTAAATGTGC CACATTGTGG TTAAGTTTTA CCTGATTAAC GAAATGCTCA CACTTCTAAA
- 301 CTGAGGTCCT TACAGTAGAT TCCTTTTGCA AGATTGTTAC TGGCTTACAA CTTAAAAATA
- 361 AAGGAAAATC ACAAGGAAAG AAAAGTGGGG AAAAAATCGG AGGAAACTTG CCCCTGCCCT
- 421 GGCCACCGC AAGGCTGCCA CAAAGGGGTT AAAAGTTAAG TGGAAGTGGA GCTTGAAGAA
- 481 GTGGGATGGG GCCTCTCCAG GAAAGCTGAA CGAGGCATCT GGAGCCCGAA CAAACCTCCA
- 541 CCTTTTTGG CCTCGACGGC GGCAACCCAG CCTCCCTCCT AACGCCCTCC GCCTTTGGGA 601 CCAACCAGGG GAGCTCAAGT TAGTAGCAGC CAAGGAGAGG CGCTGCCTTG CCAAGACTAA
- 661 AAAGGGAGGG GAGAAGAGA GAAAAAAGCA AGAATCCCCC ACCCCTCTCC CGGGCGGAGG
- 721 GGGCGGGAAG AGCGCGTCCT GGCCAAGCCG AGTAGTGTCT TCCACTCGGT GCGTCTCTCT
- 781 AGGAGCCGCG CGGGAAGGAT GCTGGTCCGC AGGGGCGCGC GCGCAGGGCC CAGGATGCCG
- 841 CGGGGCTGGA CCGCGCTTTG CTTGCTGAGT TTGCTGC

(2) INFORMATION FOR SEQ ID NO:2465:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2615 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2465:
- 1 CCTTTTTGG CCTCGACGGC GGCAACCCAG CCTCCCTCCT AACGCCCTCC GCCTTTGGGA
- 61 CCAACCAGGG GAGCTCAAGT TAGTAGCAGC CAAGGAGAGG CGCTGCCTTG CCAAGACTAA
- 121 AAAGGGAGGG GAGAAGAGG GAAAAAAGCA AGAATCCCCC ACCCCTCTCC CGGGCGGAGG

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181 GGGCGGGAAG AGCGCGTCCT GGCCAAGCCG AGTAGTGTCT TCCACTCGGT GCGTCTCTCT
 241 AGGAGCCGCG CGGGAAGGAT GCTGGTCCGC AGGGGCGCGC GCGAGGGCCC AGGATGCCGC
 301 GGGGCTGGAC CGCGCTTTGC TTGCTGAGTT TGCTGCCTTC TGGGTTCATG AGTCTTGACA
 361 ACAACGGTAC TGCTACCCCA GAGTTACCTA CCCAGGGAAC ATTTTCAAAT GTTTCTACAA
 421 ATGTATCCTA CCAAGAAACT ACAACACCTA GTACCCTTGG AAGTACCAGC CTGCACCCTG
 481 TGTCTCAACA TGGCAATGAG GCCACAACAA ACATCACAGA AACGACAGTC AAATTCACAT
 541 CTACCTCTGT GATAACCTCA GTTTATGGAA ACACAAACTC TTCTGTCCAG TCACAGACCT
 601 CTGTAATCAG CACAGTGTTC ACCACCCCAG CCAACGTTTC AACTCCAGAG ACAACCTTGA
 661 AGCCTAGCCT GTCACCTGGA AATGTTTCAG ACCTTTCAAC CACTAGCACT AGCCTTGCAA
 721 CATCTCCCAC TAAACCCTAT ACATCATCTT CTCCTATCCT AAGTGACATC AAGGCAGAAA
 781 TCAAATGTTC AGGCATCAGA GAAGTGAAAT TGACTCAGGG CATCTGCCTG GAGCAAAATA
 841 AGACCTCCAG CTGTGCGGAG TTTAAGAAGG ACAGGGGAGA GGGCCTGGCC CGAGTGCTGT
 901 GTGGGGAGGA GCAGGCTGAT GCTGATGCTG GGGCCCAGGT ATGCTCCCTG CTCCTTGCCC
 961 AGTCTGAGGT GAGGCCTCAG TGTCTACTGC TGGTCTTGGC CAACAGAACA GAAATTTCCA
1021 GCAAACTCCA ACTTATGAAA AAGCACCAAT CTGACCTGAA AAAGCTGGGG ATCCTAGATT
1081 TCACTGAGCA AGATGTTGCA AGCCACCAGA GCTATTCCCA AAAGACCCTG ATTGCACTGG
1141 TCACCTCGGG AGCCCTGCTG GCTGTCTTGG GCATCACTGG CTATTTCCTG ATGAATCGCC
1201 GCAGCTGGAG CCCCACAGGA GAAAGGCTGG GCGAAGACCC TTATTACACG GAAAACGGTG
1261 GAGGCCAGGG CTATAGCTCA GGACCTGGGA CCTCCCCTGA GGCTCAGGGA AAGGCCAGTG
1321 TGAACCGAGG GGCTCAGAAA AACGGGACCG GCCAGGCCAC CTCCAGAAAC GGCCATTCAG
1381 CAAGACAACA CGTGGTGGCT GATACCGAAT TGTGACTCGG CTAGGTGGGG CAAGGCTGGG
1441 CAGTGTCCGA GAGAGCACCC CTCTCTGCAT CTGACCACGT GCTACCCCCA TGCTGGAGGT
1501 GACATCTCTT ACGCCCAACC CTTCCCCACT GCACACCCT CAGAGGCTGT TCTTGGGGCC
1561 CTACACCTTG AGGAGGGGC AGGTAAACTC CTGTCCTTTA CACATTCGGC TCCCTGGAGC
1621 CAGACTCTGG TCTTCTTTGG GTAAACGTGT GACGGGGGAA AGCCAAGGTC TGGAGAAGCT
1681 CCCAGGAACA ATCGATGGCC TTGCAGCACT CACACAGGAC CCCCTTCCC TACCCCCTCC
1741 TCTCTGCCGC AATACAGGAA CCCCCAGGGG AAAGATGAGC TTTTCTAGGC TACAATTTTC
1801 TCCCAGGAAG CTTTGATTTT TACCGTTTCT TCCCTGTATT TTCTTTCTCT ACTTTGAGGA
1861 AACCAAAGTA ACCTTTTGCA CCTGCTCTCT TGTAATGATA TAGCCAGAAA AACGTGTTGC
1921 CTTGAACCAC TTCCCTCATC TCTCCTCCAA GACACTGTGG ACTTGGTCAC CAGCTCCTCC
1981 CTTGTTCTCT AAGTTCCACT GAGCTCCATG TGCCCCCTCT ACCATTTGCA GAGTCCTGCA
2041 CAGTTTTCTG GCTGGAGCCT AGAACAGGCC TCCCAAGTTT TAGGACAAAC AGCTCAGTTC
2101 TAGTCTCTCT GGGGCCACAC AGAAACTCTT TTTGGGCTCC TTTTTCTCCC TCTGGATCAA
2161 AGTAGGCAGG ACCATGGGAC CAGGTCTTGG AGCTGAGCCT CTCACCTGTA CTCTTCCGAA
2221 AAATCCTCTT CCTCTGAGGC TGGATCCTAG CCTTATCCTC TGATCTCCAT GGCTTCCTCC
2281 TCCCTCCTGC CGACTCCTGG GTTGAGCTGT TGCCTCAGTC CCCCAACAGA TGCTTTTCTG
2341 TCTCTGCCTC CCTCACCCTG AGCCCCTTCC TTGCTCTGCA CCCCCATATG GTCATAGCCC
2401 AGATCAGCTC CTAACCCTTA TCACCAGCTG CCTCTTCTGT GGGTGACCCA GGTCCTTGTT
2461 TGCTGTTGAT TTCTTTCCAG AGGGGTTGAG CAGGGATCCT GGTTTCAATG ACGGTTGGAA
2521 ATAGAAATTT CCAGAGAAGA GAGTATTGGG TAGATATTTT TTCTGAATAC AAAGTGATGT
2581 GTTTAAATAC TGCAATTAAA GTGATACTGA AACAC
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- (2) INFORMATION FOR SEQ ID NO:2466:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3422 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2466:

AGGATGATGG	TGATGGGGAA CTAAATGGGG	AAATATGGAA GGTCAC	AGGA AAAGTTAA	CA CAAGTTAGCA	AAAGTTAAC
ATAACACAAA	AAGGTCTTGC AGGAAAA	AAA AAAGAAAAGA	AAAGAAAGAA	AAAGTCTCCA	AGAATGGTTT
GGACAGCCAA	AATGAATACT TATAGTC	ACG TATACCTGCT	CACTCCTGAC	GCTTCACTCA	CACACAGCAC
AGGATCTGGT	GAGGCTATCA TAAATGTGC C	ACATTGTGG TTAAGTT	TTA CCTGATTAA	GAAATGCTCA	CACTTCTAAA
CTGAGGTCCT	TACAGTAGAT TCCTTTTC	GCA AGATTGTTAC	TGGCTTACAA	СТТАААААТА	AAGGAAAATC
ACAAGGAAAG	AAAAGTGGGG AAAAAATC	CGG AGGAAACTTG	CCCCTGCCCT	GGCCACCGGC	AAGGCTGCCA
CAAAGGGGTT	AAAAGTTAAG TGGAAGTG	GGA GCTTGAAGAA	GTGGGATGGG	GCCTCTCCAG	GAAAGCTGAA
CGAGGCATCT	GGAGCCCGAA CAAACCTC	CCA CCTTTTTTGG	CCTCGACGGC	GGCAACCCAG	CCTCCCTCCT
AACGCCCTCC	GCCTTTGGGA CCAACCAG	GGG GAGCTCAAGT	TAGTAGCAGC	CAAGGAGAGG	CGCTGCCTTG
CCAAGACTAA	AAAGGGAGGG GAGAAGAG	GAAAAAAGCA	AGAATCCCCC	ACCCCTCTCC	CGGGCGGAGG
GGGCGGGAAG	AGCGCGTCCT GGCCAAGC	CG AGTAGTGTCT	TCCACTCGGT	GCGTCTCTCT	AGGAGCCGCG
CGGGAAGGAT	GCTGGTCCGC AGGGGCGC	GC GCGCAGGGCC	CAGGATGCCG	CGGGGCTGGA	CCGCGCTTTG
CTTGCTGAGT	TTGCTGC CCTTTTTTGG CC	TCGACGGC GGCAACCC	AG CCTCCCTCCT	AACGCCCTCC	GCCTTTGGGA

CCAACCAGGG	GAGCTCAAGT	TAGTAGCAGC	CAAGGAGAGG	CGCTGCCTTG	CCAAGACTAA	AAAGGGAGGG
GAGAAGAGAG	GAAAAAAGCA	AGAATCCCCC	ACCCCTCTCC	CGGGCGGAGG	GGGCGGGAAG	AGCGCGTCCT
GGCCAAGCCG	AGTAGTGTCT	TCCACTCGGT	GCGTCTCTCT	AGGAGCCGCG	CGGGAAGGAT	GCTGGTCCGC
AGGGGCGCGC	GCGAGGGCCC	AGGATGCCGC	GGGGCTGGAC	CGCGCTTTGC	TTGCTGAGTT	TGCTGCCTTC
TGGGTTCATG	AGTCTTGACA	ACAACGGTAC	TGCTACCCCA	GAGTTACCTA	CCCAGGGAAC	ATTTTCAAAT
GTTTCTACAA	ATGTATCCTA	CCAAGAAACT	ACAACACCTA	GTACCCTTGG	AAGTACCAGC	CTGCACCCTG
TGTCTCAACA	TGGCAATGAG	GCCACAACAA	ACATCACAGA	AACGACAGTC	AAATTCACAT	CTACCTCTGT
GATAACCTCA	GTTTATGGAA	ACACAAACTC	TTCTGTCCAG	TCACAGACCT	CTGTAATCAG	CACAGTGTTC
ACCACCCCAG	CCAACGTTTC	AACTCCAGAG	ACAACCTTGA	AGCCTAGCCT	GTCACCTGGA	AATGTTTCAG
ACCTTTCAAC	CACTAGCACT	AGCCTTGCAA	CATCTCCCAC	TAAACCCTAT	ACATCATCTT	CTCCTATCCT
AAGTGACATC	AAGGCAGAAA	TCAAATGTTC	AGGCATCAGA	GAAGTGAAAT	TGACTCAGGG	CATCTGCCTG
GAGCAAAATA	AGACCTCCAG	CTGTGCGGAG	TTTAAGAAGG	ACAGGGGAGA	GGGCCTGGCC	CGAGTGCTGT
GTGGGGAGGA	GCAGGCTGAT	GCTGATGCTG	GGGCCCAGGT	ATGCTCCCTG	CTCCTTGCCC	AGTCTGAGGT
GAGGCCTCAG	TGTCTACTGC	TGGTCTTGGC	CAACAGAACA	GAAATTTCCA	GCAAACTCCA	ACTTATGAAA
AAGCACCAAT	CTGACCTGAA	AAAGCTGGGG	ATCCTAGATT	TCACTGAGCA	AGATGTTGCA	AGCCACCAGA
GCTATTCCCA	AAAGACCCTG	ATTGCACTGG	TCACCTCGGG	AGCCCTGCTG	GCTGTCTTGG	GCATCACTGG
CTATTTCCTG	ATGAATCGCC	GCAGCTGGAG	CCCCACAGGA	GAAAGGCTGG	GCGAAGACCC	TTATTACACG
GAAAACGGTG	GAGGCCAGGG	CTATAGCTCA	GGACCTGGGA	CCTCCCCTGA	GGCTCAGGGA	AAGGCCAGTG
TGAACCGAGG	GGCTCAGAAA	AACGGGACCG	GCCAGGCCAC	CTCCAGAAAC	GGCCATTCAG	CAAGACAACA
CGTGGTGGCT	GATACCGAAT	TGTGACTCGG	CTAGGTGGGG	CAAGGCTGGG	CAGTGTCCGA	GAGAGCACCC
CTCTCTGCAT	CTGACCACGT	GCTACCCCCA	TGCTGGAGGT	GACATCTCTT	ACGCCCAACC	CTTCCCCACT
GCACACACCT	CAGAGGCTGT	TCTTGGGGCC	CTACACCTTG	AGGAGGGGC	AGGTAAACTC	CTGTCCTTTA
CACATTCGGC	TCCCTGGAGC	CAGACTCTGG	TCTTCTTTGG	GTAAACGTGT	GACGGGGGAA	AGCCAAGGTC
TGGAGAAGCT	CCCAGGAACA	ATCGATGGCC	TTGCAGCACT	CACACAGGAC	CCCCTTCCCC	TACCCCCTCC
TCTCTGCCGC	AATACAGGAA	CCCCCAGGGG	AAAGATGAGC	TTTTCTAGGC	TACAATTTTC	TCCCAGGAAG
CTTTGATTTT	TACCGTTTCT	TCCCTGTATT	TTCTTTCTCT	ACTTTGAGGA	AACCAAAGTA	ACCTTTTGCA
CCTGCTCTCT	TGTAATGATA	TAGCCAGAAA	AACGTGTTGC	CTTGAACCAC	TTCCCTCATC	TCTCCTCCAA
GACACTGTGG	ACTTGGTCAC	CAGCTCCTCC	CTTGTTCTCT	AAGTTCCACT	GAGCTCCATG	TGCCCCCTCT
ACCATTTGCA	GAGTCCTGCA	CAGTTTTCTG	GCTGGAGCCT	AGAACAGGCC	TCCCAAGTTT	TAGGACAAAC
AGCTCAGTTC	TAGTCTCTCT	GGGGCCACAC	AGAAACTCTT	TTTGGGCTCC	TTTTTCTCCC	TCTGGATCAA
AGTAGGCAGG	ACCATGGGAC	CAGGTCTTGG	AGCTGAGCCT	CTCACCTGTA	CTCTTCCGAA	AAATCCTCTT
CCTCTGAGGC	TGGATCCTAG	CCTTATCCTC	TGATCTCCAT	GGCTTCCTCC	TCCCTCCTGC	CGACTCCTGG
GTTGAGCTGT	TGCCTCAGTC	CCCCAACAGA	TGCTTTTCTG	TCTCTGCCTC	CCTCACCCTG	AGCCCCTTCC
TTGCTCTGCA	CCCCCATATG	GTCATAGCCC	AGATCAGCTC	CTAACCCTTA	TCACCAGCTG	CCTCTTCTGT
GGGTGACCCA	GGTCCTTGTT	TGCTGTTGAT	TTCTTTCCAG	AGGGGTTGAG	CAGGGATCCT	GGTTTCAATG
ACGGTTGGAA	ATAGAAATTT	CCAGAGAAGA	GAGTATTGGG	TAGATATTTT	TTCTGAATAC	AAAGTGATGT
GTTTAAATAC	TGCAATTAAA GT	GATACTGA AACA	/C			

- (2) INFORMATION FOR SEQ ID NO:2467:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8124 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2467:
 - 1 TCCCAGTTAA TACATAATCA ATATGCAATT TATTAATACA TCTCTCCATG TCCACTCCCC 61 CTGTATCTTG CCATTCTTGA CCTGCATTTC CATCCTCCTT ACCTTCCCTA GAGGCCAACT 121 CATTTCTTT GAAAAACCTG GCATTTCCCA GAAAAAAAG TGAAGGGCTG GGAGCTGTCC 181 GTTGTCCTGA TTTGCTCCCT CTGCCCTTGC TTCCAAATGT GGTTGGAAAG AAGCACTATT 241 GAAAAATCCC TAAACGCACC CCTGCAGGGT TGGCTCTACC CTGTAGCCAT GGACACATGC 301 TGTTGATACC ACCTGCCTCA TGAGTCTCAC ATAATTTGCC CTTTCACACT ATCTACCCCA 361 TCAGCCTTAC CAAAACCATA CCTGCATCCT GGGCAGCATC TGCCCTTCAA GAGACTAAGG 421 AATCTCCTTG CAACCAAGAA TGACTAGACC AATGAGACAC CCTTTAAGGC CCCAGCACAA 481 TATAGAAATC CCACAATATG GTAATCCCAG TAAGGAGCTA TCAAGCCATT GCAGGACCAT 541 CTAGAATACA ACTAGAGTAT AGTTCCTTTC AATCCAGGAA CTATACTCTA ACAGCTTGGC 601 TCACAGGAAC CAGAAGTGAA GATGATGAGG ATCAGGGCTG AGCCTGTGAG CACCAGCTCC 661 ACCACTGACA CCAACCACAG ATTAAACAAG CATCTTGTGG ACCCCTGGGA TGGAAAGAAT 721 AGTTGTTGCC TTATCAACCT CCCCCACAGC CCACAGAA AAGATAAAAT CATCATGGCT 781 ACAGTGTTAC AGAAGATGAT GACCCAAGGA GTAGGCCTGC CTGAGTGAAT GCTGAGAGTG 841 ATAATGGGAG CAGTAGCATC TCAGAGACTA CAGCAGAAAC CATCCACATA AAGAGCTTTG 901 CCCAAACTTA TGATAAAGGG CACCCTCAGA GACTCTCCCT ACTTTAATAT TAGCCCATTG

961 CAGAAATGGT GAGTGGAAAG AGAAATCTTA GGAAGAACCC CTTAAAAAAAG CAAAATGCTT

				AAATAAGGAC		
1081	CTCCTGCCCC	AACACTGGGA	TAATCTCCAA	GGATCTCTCC	ATATCTCATT	CTCCTGGATA
1141	CACTGTCCAC	TCAGAAATAT	TGTGCAGAGT	GCAGTAATTC	AAAAGTGAGC	TATTGTGTTA
1201	GGAGTGAAGG	CAAGAGTATC	GTAAAATAAA	TCAAATTTGA	AATGAATTCT	CTTAAATTGC
1261	TTTATAGATG	TTTAATGTAA	GCCAGCAGCT	ATTAAACGAT	AAACCTTAAA	TTCGAGAAAA
				CAGGACTTAT		
				AGTGCCATGA		
				CCATCAGCTG		
				AGGGTGTTTT		
1561	TAAAACAAGT	TGCATAGAAA	TGCTCAATCA	AGAAAGACAC	AGTCATTACT	CAGAGAATAA
				AAAAAAGATG		
				AATGTGTTTA		
				GCCAATGAGG		
				ACACAAAGGA		
				ATCATATTTA		
				AGTAACTAAG		
				GAACCAAGAT		
				AAGTGAATAC		
				GCATTATAGT		
				CCAAATTTTC		
				TGCCGCAATG		
				GTTAGTAAGT		
				GTCTAGAGTC		
				GGTCCTACTA		
				AATTATTTCC		
				CATGATAATA		
				ATTAACAGAG		
				ATTCTACCTT		
				CAGAGACATT		
				CCCACATCAA		
				CTGAACATAA		
				GAAATAACCC		
				ACCTGCTCCA		
				GATAACTGTA		
				GGGGGAAGAA		
				GCAAAGAAGG		
				GGGGCTATAC		
				CTTGGTGGAT		
				CTCAATTTCT		
				TTTGGTCTAA		
				GTTCTGTTAA		
				AGGATTCCAG		
				TTCAATATTT		
				AACTGGGCAT		
				ACACTTAAGA		
				AGAGAGTTAG		
				GGCCAATATA		
				ATAGTGAGAT		
				GCCTTATAAA		
				GGGAAAATAA		
				GTCATGTTAA		
				CCCAGGTTGT		
				GAGCAAACAC		
				TTTCTCTCTA		
				GAACCATAAG		
				AATGGTAATA		
				AATATATGAT		
				TAAAGTTCTG		
				GTCTTTTTCA		
				GGAATTATCA		
				AGTGGAGTGG		
				CCTGAAACCT		

474]	L CACACATACA	TATGTGCATG	CACTGGGACT	CTGCAATATG	CATTTCTGAC	TATGGAACAT
4801	l AGCCATAAA <i>A</i>	GTCTTTGCAC	TGAACGTTCA	GTGGGCCTTT	CACAAGCTGC	CCTAATTGGG
4861	l aaagaaaac	: ATGGTCCCTC	CATTTCCTGC	CCCCAACTCC	AGAAAAGTCA	CCATAGTTGA
4921	L GGGTACATCT	GAGAAGCCAG	CACTTGGGAG	TTCAGGGCTC	AAGTTCCTTT	CTAGAAAAAC
4981	ACTGGGTGAT	TCTAGGGGAA	CTTCCGATCA	GAAACAGCCA	ATTCAGAGTG	AGAGAAGAAA
5041	ACGTGACCAT	GCAGTTCCTG	TGGTTACCAG	CCTTGCCCCT	CTCTTGCCTT	CTGGGAGTTA
5101	TAAAACCCAA	GACTGGAAAG	GAAAACCAGC	ATTTGCTCAG	GCAGCCTCTC	TGGGAAGATG
5161	. CTGCTTCTTC	CTCTCCCCCT	GCTGCTCTTT	CTCTTGTGCT	CCAGAGCTGA	AGCTGGTGAG
5221	. TATCAGGGTT	CTTCCCTCTG	AAATCTGCAG	TATCAGCTCC	TGAAACAAAG	ATGTTTAGTC
5281	. TGAAATAGCT	GACTCCTAAA	CAGGGTTCCA	AGATCTCTCT	TCAAGAGTCC	CACAGAGGAA
5341	. ATTTCCACTT	GGGATGTGTG	CCACCCCACC	CCCACCCCCA	CCCACTGCCA	TTCTCTACAC
5401	CCTAGGACAC	CCCCAGGAAC	AAGGAATTTC	ACCTCAATTG	TAGAAAAGCC	CAGAGCAAGT
5461	GGAAGGAAAA	GGGGTATCCC	CAGGAAAACA	GACATGTCCT	СТТААТСТТС	TGAGCATCAG
5521	GGCTACCCAT	TACTTTGTGA	CTTTCTCACT	CTGTGACCAT	GCTCAAGAGC	TATGGAGAAA
5581	TCTAAAACAG	GAACCTGGAC	AGTGGGTCCT	ACACAGAGAC	AGAGGAGAGT	GGGCCAGGGC
5641	AAGGTGGGAG	TGGGAGAAGT	CTGAGATGAA	AACATCAGAA	TGGAGCAGAG	GCAAGAATGA
5701	GATTTCACCT	GGGAGGTTAT	GGGTGGGGAA	AGATACGAAA	TACAGGAGAC	AGGAGAGGGA
5761	AGATGGGCGG	AACACAGGGT	GAGAATGAGA	TTCCAGGGAA	GCCTAGCTCA	GCTTTAACCC
5821	AATTTGTCCA	TTCATTGGAG	AGAGTATCTA	TGGCCGTGTT	CAAACCCTGG	GCTGCTCTCT
5881	TCCAGGGGAG	ATCATCGGGG	GCACAGAATG	CAAGCCACAT	TCCCGCCCCT	ACATEGECTA
5941	CCTGGAAATT	GTAACTTCCA	ACGGTCCCTC	AAAATTTTGT	GGTGGTTTCC	TTATAACACC
6001	GAACTTTGTG	CTGACGGCTG	CTCATTGTGC	AGGAAGGTGA	GACAACAGGG	ΤΕΓΕΛΙΚΑΘΑΟΘ
6061	TCCAAATGGG	AGATGAACAA	CCAGAGTAGC	ATCCAGGAAT	ACACCTGCAC	TGGGGACTGA
6121	AGAGGGGGTC	CTGGGTCTTG	TCAACTTTCA	GGAGAGGGAA	GACTTTGGGC	TCAAACACTT
6181	TAGTCTGTGT	TTGAATAGTT	CCTTGAGCCT	CAGTCACTGA	GCTAAGCTCC	CTTCGGAGGA
6241	AAAGGAGGTC	CTGTCCGAAG	GTCCCTCTTG	TTGCAGTAGC	ACCCCTCACC	CCTACCCAAC
6301	TCAAGACACA	CGGCTCACTT	TTCAGGGCCC	CACCCAGTCT	CAGGGCCACT	TCCTCTATCC
6361	CCTTTTCAAG	AACACTGGCT	CTAGTTCTCA	GGGTCCTGAA	CCCATCATTT	TATECEACEA
6421	GAGAACAGGT	CTACATAAGA	CCCCCACTTT	CCCGTTTTAA	CTGATATCTC	CTGCTTCAGG
6481	GGCTGGCCCT	CATGCAGGGT	TCCCTGAATT	AGGAAGTGTG	AACCCTGTCC	CCTGAGTCCT
6541	CCCTGGCCTG	TTCAGTCCCC	AGCAATTCCA	GGGGTCGTAG	AAATTGTGTC	TGTTTCCTCA
6601	GAAAGCTCTT	TCATGAGTTA	AGCCTGAGCC	CTCAAATGCC	ACAAGTGGCC	CATGAAAAGG
6661	GAGATGGGTA	GAGTCCGGCN	ACCCAGTGAC	AGAGTTTAGT	ССТСТТТТСТ	CAGAATGAGC
6721	TCACCTCAGA	AGAAACCCCA	AGCCATCACT	GTCGCCTCCT	TTTCCTTCCT	TCTTCCTCAC
6781	AGCAGGTCTA	TAACAGTCAC	CCTTGGAGCC	CATAACATAA	CAGAGGAAGA	AGACACATGG
6841	CAGAAGCTTG	AGGTTATAAA	GCAATTCCGT	CATCCAAAAT	ATAACACTTC	TACTCTTCAC
6901	CACGATATCA	TGTTACTAAA	GGTGACAACA	CCTCTCTTCT	CCCTTTCCAC	TTCCCATTCT
6961	CCTAAGCTTC	TCCTTCAGGT	CCTCATTGCC	CTGAATTTTT	CTTAGGACTT	GGCTATAACA
7021	TGAAGCTACT	CACCCTGTCC	CTCCCTGATC	ACCTCCAACT	GTCCAGAGCC	CATTTCGAGG
7081	ACTGACAGTC	CTTCATTCCC	TTCACAGTTG	AAGGAGAAAG	CCAGCCTGAC	CCTGGCTGTG
7141	GGGACACTCC	CCTTCCCATC	ACAATTCAAC	TTTGTCCCAC	CTGGGAGAAT	GTGCCGGGTG
7201	GCTGGCTGGG	GAAGAACAGG	TGTGTTGAAG	CCGGGCTCAG	ACACTCTGCA	AGAGGTGAAG
/261	CTGAGACTCA	TGGATCCCCA	GGCCTGCAGC	CACTTCAGAG	ACTTTGACCA	CAATCTTCAG
7321	CTGTGTGTGG	GCAATCCCAG	GAAGACAAAA	TCTGCATTTA	AGGTGATCCT	CCAACTAGGT
7381	TTCCTCTCCA	AAACTCACTG	TTCAGGGACC	TGAATGCTCT	TAGAAGGAGA	TGGGGTCAGC
/441	AGGTTGTCAG	TCAGGTGACA	GGGTGAGCAT	CACAGGAATT	GCTGTCCTCC	CGTGGTCCAA
7501	GACAGCCTCT	GACCATCCAT	TCCAGTCTAC	TGCACTGGGG	GCATGGGGTG	ACTGTGGAGA
7561	ATGTGGATGA	CGGTCCCAAG	AAAGGAAGAA	GGGGCATCAG	AACTAGATGT	ATAAGTGAGG
7621	AGCTCCACCT	CCTGGGTCTG	ACTTTAGGTC	TCACTGTGAC	TCCAAGCTGG	CTGGCAGACA
7681	GGAGTGGAGG	ACTTCCCGGG	CTCACCTTCT	TCTCTCTCTC	CTCCCCCTAC	AGGGAGACTC
7741	TGGGGGCCCT	CTTCTGTGTG	CTGGGGTGGC	CCAGGGCATC	GTATCCTATG	GACGGTCGGA
7801	TGCAAAGCCC	CCTGCTGTCT	TCACCCGAAT	CTCCCATTAC	CGGCCCTGGA	TCAACCAGAT
7861	CCTGCAGGCA	AATTAATCCT	GGATCCTGAG	CCAGCCTGAA	GGGAAGCTGG	AACTGGACCT
7921	TAGCAGCAAA	GTGTGTGCAA	CTCATTCTGG	TTCTACCCTT	GGTTCCCTCA	GCCACAACCC
7981	TAAGCCTCCA	AGAGGTCTCC	TACAGGTAAC	AGAACTTTCA	ATAAACTTCA	GTGAAGACAC
8041	AGCTTCTAGT	CGTGAGTGTG	TGTCCCTCTC	TGCTGCTCTC	TTCTCCTGCA	CATGTGACCT
8101	GATTCCCAGC	CCAAGCACCA	AGGA			

(2) INFORMATION FOR SEQ ID NO:2468: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 681 base pairs (B) TYPE: nucleic acid

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(C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2468:
    1 ATCATCGGGG GCACAGAATC CAAGCCACAT TCCCGCCCCT ACATGGCCTA CCTGGAAATT
   61 GTAACTTCCA ACGGTCCCTC AAAATTTTGT GGTGGTTTCC TTATAAGACG GAACTTTGTG
  121 CTGACGGCTG CTCATTGTGC AGGAAGGTCT ATAACAGTCA CCCTTGGAGC CCATAACATA
  181 ACAGAGGAAG AAGACACATG GCAGAAGCTT GAGGTTATAA AGCAATTCCG TCATCCAAAA
  241 TATAACACTT CTACTCTTCA CCACGATATC ATGTTACTAA AGTTGAAGGA GAAAGCCAGC
  301 CTGACCCTGG CTGTGGGGAC ACTCCCCTTC CCATCACAAT TCAACTTTGT CCCACCTGGG
  361 AGAATGTGCC GGGTGGCTGG CTGGGGAAGA ACAGGTGTGT TGAAGCCGGG CTCAGACACT
  421 CTGCAAGAGG TGAAGCTGAG ACTCATGGAT CCCCAGGCCT GCAGCCACTT CAGAGACTTT
  481 GACCACAATC TTCAGCTGTG TGTGGGCAAT CCCAGGAAGA CAAAATCTGC ATTTAAGGGA
  541 GACTCTGGGG GCCCTCTTCT GTGTGCTGGG GTGGCCCAGG GCATCGTATC CTATGGACGG
  601 TCGGATGCAA AGCCCCCTGC TGTCTTCACC CGAATCTCCC ATTACCGGCC CTGGATCAAC
  661 CAGATCCTGC AGGCAAATTA A
(2) INFORMATION FOR SEQ ID NO:2469:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1310 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2469:
    1 GCCACCATGG AAACCCTTTG CCTCAGGGCA TCCTTTTGGC TGGCACTGGT TGGATGTGTA
   61 ATCAGTGATA ATCCTGAGAG ATACAGCACA AATCTAAGCA ATCATGTGGA TGATTTCACC
  121 ACTITICGTG GCACAGAGCT CAGCTTCCTG GTTACCACTC ATCAACCCAC TAATTTGGTC
  181 CTACCCAGCA ATGGCTCAAT GCACAACTAT TGCCCACAGC AGACTAAAAT TACTTCAGCT
  241 TTCAAATACA TTAACACTGT GATATCTTGT ACTATTTTCA TCGTGGGAAT GGTGGGGAAT
 301 GCAACTCTGC TCAGGATCAT TTACCAGAAC AAATGTATGA GGAATGGCCC CAACGCGCTG
 361 ATAGCCAGTC TTGCCCTTGG AGACCTTATC TATGTGGTCA TTGATCTCCC TATCAATGTA
 421 TTTAAGCTGC TGGCTGGCCG CTGGCCTTTT GATCACAATG ACTTTGGCGT ATTTCTTTGC
 481 AAGCTGTTCC CCTTTTTGCA GAAGTCCTCG GTGGGGATCA CCGTCCTCAA CCTCTGCGCT
 541 CTTAGTGTTG ACAGGTACAG AGCAGTTGCC TCCTGGAGTC GTGTTCAGGG AATTGGGATT
 601 CCTTTGGTAA CTGCCATTGA AATTGCCTCC ATCTGGATCC TGTCCTTTAT CCTGGCCATT
 661 CCTGAAGCGA TTGGCTTCGT CATGGTACCC TTTGAATATA GGGGTGGACA GCATAAAACC
 721 TGTATGCTCA ATGCCACATC AAAATTCATG GAGTTCTACC AAGATGTAAA GGACTGGTGG
 781 CTCTTCGGGT TCTATTTCTG TATGCCCTTG GTGTGCACTG CGATCTTCTA CACCCTCATG
 841 ACTGGTGAGA TGTTGAACAG AAGGAATGGC AGCTTGAGAA TTGCCCTCAG TGAACATCTT
 901 AAGCAGCGTC GAGAAGTGGC AAAAACAGTT TTCTGCTTGG TTGTAATTTT TGCTCTTTGC
 961 TGGTTCCCTC TTCATTTAAG CCGTATATTG AAGAAAACTG TGTATAACGA GATGGACAAG
1021 AACCGATGTG AATTACTTAG TTTCTTACTG CTCATGGATT ACATCGGTAT TAACTTGGCA
1081 ACCATGAATT CATGTATAAA CCCCATAGCT CTGTATTTTG TGAGCAAGAA ATTTAAAAAT
1141 TGTTTCCAGT CATGCCTCTG CTGCTGCTGT TACCAGTCCA AAAGTCTGAT GACCTCGGTC
1201 CCCATGAACG GAACAAGCAT CCAGTGGAAG AACCACGATC AAAACAACCA CAACACAGAC
1261 CGGAGCAGCC ATAAGGACAG CATGAACTGA CCACCCTTAG AAGCACTCCT
(2) INFORMATION FOR SEQ ID NO:2470:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1868 base pairs
     (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2470:
   1 GAATTCGGGA AAAAGTGAAG GTGTAAAAGC AGCACAAGTG CAATAAGAGA TATTTCCTCA
  61 AATTTGCCTC AAGATGGAAA CCCTTTGCCT CAGGGCATCC TTTTGGCTGG CACTGGTTGG
 121 ATGTGTAATC AGTGATAATC CTGAGAGATA CAGCACAAAT CTAAGCAATC ATGTGGATGA
 181 TTTCACCACT TTTCGTGGCA CAGAGCTCAG CTTCCTGGTT ACCACTCATC AACCCACTAA
 241 TTTGGTCCTA CCCAGCAATG GCTCAATGCA CAACTATTGC CCACAGCAGA CTAAAATTAC
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301 TTCAGCTTTC AAATACATTA ACACTGTGAT ATCTTGTACT ATTTTCATCG TGGGAATGGT
361 GGGGAATGCA ACTCTGCTCA GGATCATTTA CCAGAACAAA TGTATGAGGA ATGGCCCCAA
421 CGCGCTGATA GCCAGTCTTG CCCTTGGAGA CCTTATCTAT GTGGTCATTG ATCTCCCTAT
481 CAATGTATTT AAGCTGCTGG CTGGGCGCTG GCCTTTTGAT CACAATGACT TTGGCGTATT
541 TCTTTGCAAG CTGTTCCCCT TTTTGCAGAA GTCCTCGGTG GGGATCACCG TCCTCAACCT

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601 CTGCGCTCTT AGTGTTGACA GGTACAGAGC AGTTGCCTCC TGGAGTCGTG TTCAGGGAAT
 661 TGGGATTCCT TTGGTAACTG CCATTGAAAT TGTCTCCATC TGGATCCTGT CCTTTATCCT
 721 GGCCATTCCT GAAGCGATTG GCTTCGTCAT GGTACCCTTT GAATATAGGG GTGAACAGCA
 781 TAAAACCTGT ATGCTCAATG CCACATCAAA ATTCATGGAG TTCTACCAAG ATGTAAAGGA
 841 CTGGTGGCTC TTCGGGTTCT ATTTCTGTAT GCCCTTGGTG TGCACTGCGA TCTTCTACAC
 901 CCTCATGACT TGTGAGATGT TGAACAGAAG GAATGGCAGC TTGAGAATTG CCCTCAGTGA
 961 ACATCTTAAG CAGCGTCGAG AAGTGGCAAA AACAGTTTTC TGCTTGGTTG TAATTTTTGC
1021 TCTTTGCTGG TTCCCTCTTC ATTTAAGCCG TATATTGAAG AAAACTGTGT ATAACGAGAT
1081 GGACAAGAAC CGATGTGAAT TACTTAGTTT CTTACTGCTC ATGGATTACA TCGGTATTAA
1141 CTTGGCAACC ATGAATTCAT GTATAAACCC CATAGCTCTG TATTTTGTGA GCAAGAAATT
1201 TAAAAATTGT TTCCAGTCAT GCCTCTGCTG CTGCTGTTAC CAGTCCAAAA GTCTGATGAC
1261 CTCGGTCCCC ATGAACGGAA CAAGCATCCA GTGGAAGAAC CACGATCAAA ACAACCACAA
1321 CACAGACCGG AGCAGCCATA AGGACAGCAT GAACTGACCA CCCTTAGAAG CACTCCTCGG
1381 TACTCCCATA ATCCTCTCGG AGAAAAAAAT CACAAGGCAA CTGTGAGTCC GGGAATCTCT
1441 TCTCTGATCC TTCTTCCTTA ATTCACTCCC ACACCCAAGA AGAAATGCTT TCCAAAACCG
1501 CAAGGGTAGA CTGGTTTATC CACCCACAAC ATCTACGAAT CGTACTTCTT TAATTGATCT
1561 AATTTACATA TTCTGCGTGT TGTATTCAGC ACTAAAAAAT GGTGGGAGCT GGGGGAGAAT
1621 GAAGACTGTT AAATGAAACC AGAAGGATAT TTACTACTTT TGCATGAAAA TAGAGCTTTC
1681 AAGTACATGG CTAGCTTTTA TGGCAGTTCT GGTGAATGTT CAATGGGAAC TGGTCACCAT
1741 GAAACTTTAG AGATTAACGA CAAGATTTTC TACTTTTTTT AAGTGATTTT TTTGTCCTTC
1801 AGCCAAACAC AATATGGGCT CAAGTCACTT TTATTTGAAA TGTCATTTGG TGCCAGTATC
1861 CCGAATTC
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(2) INFORMATION FOR SEQ ID NO:2471:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2008 base pairs

A A A CTROTTO ATT CA COMOCOMO

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2471:

TACCAGTCCA	AAAGTCTGAT	GACCTCGGTC	CCCATGAACG	GAACAAGCAT	CCAGTGGAAG	AACCACGATC
AAAACAACCA	CAACACAGAC	CGGAGCAGCC	ATAAGGACAG	CATGAACTGA	CCACCCTTAG	AAGCACTCCT
GAATTCGGGA	AAAAGTGAAG	GTGTAAAAGC	AGCACAAGTG	CAATAAGAGA	TATTTCCTCA	AATTTGCCTC
AAGATGGAAA	CCCTTTGCCT	CAGGGCATCC	TTTTGGCTGG	CACTGGTTGG	ATGTGTAATC	AGTGATAATC
CTGAGAGATA	CAGCACAAAT	CTAAGCAATC	ATGTGGATGA	TTTCACCACT	TTTCGTGGCA	CAGAGCTCAG
CTTCCTGGTT	ACCACTCATC	AACCCACTAA	TTTGGTCCTA	CCCAGCAATG	GCTCAATGCA	CAACTATTGC
CCACAGCAGA	CTAAAATTAC	TTCAGCTTTC	AAATACATTA	ACACTGTGAT	ATCTTGTACT	ATTTTCATCG
TGGGAATGGT	GGGGAATGCA	ACTCTGCTCA	GGATCATTTA	CCAGAACAAA	TGTATGAGGA	ATGGCCCCAA
CGCGCTGATA	GCCAGTCTTG	CCCTTGGAGA	CCTTATCTAT	GTGGTCATTG	ATCTCCCTAT	CAATGTATTT
AAGCTGCTGG	CTGGGCGCTG	GCCTTTTGAT	CACAATGACT	TTGGCGTATT	TCTTTGCAAG	CTGTTCCCCT
TTTTGCAGAA	GTCCTCGGTG	GGGATCACCG	TCCTCAACCT	CTGCGCTCTT	AGTGTTGACA	GGTACAGAGC
AGTTGCCTCC	TGGAGTCGTG	TTCAGGGAAT	TGGGATTCCT	TTGGTAACTG	CCATTGAAAT	TGTCTCCATC
TGGATCCTGT	CCTTTATCCT	GGCCATTCCT	GAAGCGATTG	GCTTCGTCAT	GGTACCCTTT	GAATATAGGG
GTGAACAGCA	TAAAACCTGT	ATGCTCAATG	CCACATCAAA	ATTCATGGAG	TTCTACCAAG	ATGTAAAGGA
CTGGTGGCTC	TTCGGGTTCT	ATTTCTGTAT	GCCCTTGGTG	TGCACTGCGA	TCTTCTACAC	CCTCATGACT
TGTGAGATGT	TGAACAGAAG	GAATGGCAGC	TTGAGAATTG	CCCTCAGTGA	ACATCTTAAG	CAGCGTCGAG
AAGTGGCAAA	AACAGTTTTC	TGCTTGGTTG	TAATTTTTGC	TCTTTGCTGG	TTCCCTCTTC	ATTTAAGCCG
TATATTGAAG	AAAACTGTGT	ATAACGAGAT	GGACAAGAAC	CGATGTGAAT	TACTTAGTTT	CTTACTGCTC
ATGGATTACA	TCGGTATTAA	CTTGGCAACC	ATGAATTCAT	GTATAAACCC	CATAGCTCTG	TATTTTGTGA
GCAAGAAATT	TAAAAATTGT	TTCCAGTCAT	GCCTCTGCTG	CTGCTGTTAC	CAGTCCAAAA	GTCTGATGAC
CTCGGTCCCC	ATGAACGGAA	CAAGCATCCA	GTGGAAGAAC	CACGATCAAA	ACAACCACAA	CACAGACCGG
AGCAGCCATA	AGGACAGCAT	GAACTGACCA	CCCTTAGAAG	CACTCCTCGG	TACTCCCATA	ATCCTCTCGG
AGAAAAAAAT	CACAAGGCAA	CTGTGAGTCC	GGGAATCTCT	TCTCTGATCC	TTCTTCCTTA	ATTCACTCCC
ACACCCAAGA	AGAAATGCTT	TCCAAAACCG	CAAGGGTAGA	CTGGTTTATC	CACCCACAAC	ATCTACGAAT
CGTACTTCTT	TAATTGATCT	AATTTACATA	TTCTGCGTGT	TGTATTCAGC	ACTAAAAAAT	GGTGGGAGCT
GGGGGAGAAT	GAAGACTGTT	AAATGAAACC	AGAAGGATAT	TTACTACTTT	TGCATGAAAA	TAGAGCTTTC
AAGTACATGG	CTAGCTTTTA	TGGCAGTTCT	GGTGAATGTT	CAATGGGAAC	TGGTCACCAT	GAAACTTTAG
AGATTAACGA	CAAGATTTTC	TACTTTTTT	AAGTGATTTT	TTTGTCCTTC	AGCCAAACAC	AATATGGGCT
CAAGTCACTT	TTATTTGAAA TG'	CATTTGG TGCC	AGTATC CCGAAT	TC.		

0007807700

(2) INFORMATION FOR SEQ ID NO:2472:

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 362 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2472:
   1 GCTCAGCCTC CAAAGGAGCC AGCCTCTCCC CAGTTCCTGA AATCCTGAGT GTTGCCTGCC
   61 AGTCGCCATG AGAACTTCCT ACCTTCTGCT GTTTACTCTC TGCTTACTTT TGTCTGAGAT
 121 GGCCTCAGGT GGTAACTTTC TCACAGGCCT TGGCCACAGA TCTGATCATT ACAATTGCGT
 181 CAGCAGTGGA GGGCAATGTC TCTATTCTGC CTGCCCGATC TTTACCAAAA TTCAAGGCAC
 241 CTGTTACAGA GGGAAGGCCA AGTGCTGCAA GTGAGCTGGG AGTGACCAGA AGAAATGACG
 301 CAGAAGTGAA ATGAACTTTT TATAAGCATT CTTTTAATAA AGGAAAATTG CTTTTGAAGT
 361 AT
(2) INFORMATION FOR SEQ ID NO: 2473
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 4655 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEO ID NO:2473:
4081 AGTCTTTTGC CCTAGAAGGT ATAAACAAAT TGGCACCTGT GGTCTCCCTG GAACAAATG
4141 CTGCAAAAAG CCATGAGGAG GCCAAGAAGC TGCTGTGGCT GATGCGGATT CAGAAAGGGC
4201 TCCCTCATCA GAGACGTGCG ACATGTAAAC CAAATTAAAC TATGGTGTCC AAAGATACGC
4261 AATCTTTATC CTAGTAATTG TGGTCATTGG GTGATGTTGG TTTGGGCAGG CCATCTCTAA
4321 TATCCTTGAA ACACCTTTTT CTGCTCTCCA GGAAGGGGTC AGGGCTGCCA CAGCGGGGCT
4381 TGGAGTGCTT TCCAGGGTCA CAGGCATCTG TATTCTTTGG ATTCCTTGAC CTTCCCCATT
4441 TATTCCCGGC ATTTTCCTAA AACGTGTGCT TTGCTCCTCC TGCATCCTCC CCTTGCATGC
4501 CCTCACCTAC CCCACATCTT CCCTAAAAAA AGCAAGCCCA ACTCAAAGAC CAGTTCCCTC
4561 ATGGAATCAT AGTGGATCTG CCAAGGGAGG GGATGCCCAG TCCTCTGTTC TTCACAAGAC
4621 TCCCTTCTTC TGGCTAAGGT TTCTTATGCA ATTAT
(2) INFORMATION FOR SEQ ID NO: 2474:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 2030 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2474:
   1 CTGCAGTGGT AAAAAGATTC TATATCTGCT GTTTGATGAA TGCAGCACCC ACTAGCCACA
  61 TAGTGCTCGT GAGCACTTGC AATGCGGCTA GGGTGATTTC AATTAACCTA AAAGAGAACA
 121 GCCACAGGGA GCATGTGGCT GCCATATTGG ATGGTGCTGC TTTGAGAACA AAATGAGAGA
 181 AATGAAGCCT CTATTTACCT TGGTTGGCGG AACACATTGA AGGGACTCTG TATTGATACC
 241 AGGCTTCAAA CTTTGGGAAG TGTACTGGCC AACTTAAACA CATCCACAGG AGAATGAAGA
 301 GGTTTGGGAA GGGACCAGAA ACCAGGCATT GAGGACAATG AGAAGAGTTT TTCAAAAGTG
 361 GAATTACTGC AAAAAGTGGA AAAATAGCCT TTGGATGGAA GTTACTGATG AGACAATTTC
 421 CATCGGTGTG AAAGCCATCT TTCCAACAGA GATCTGCAAC ATGAGAATGT ACTGTCTCCT
 481 AGGGTAGCGA TGGCCTCTTG TATTAGTCCG CTCAGGCTAC CAGATTTATC GTTTAAACTG
 541 CCCATAAACA GACCAGGCAG TTTAAACAAC AGAAATTTAT TTCCTCGCAG TCCTGGAGGC
 601 AGGAAGTCTG CGATCAAGGT GGAAGCAGGG TTGGCTTCTT CTCAGGTGTC TGTCCTTGGC
 661 TGGTAGATGA CCGCCGCCTC CCTGGGTCCT CACATGGTCT TTCCTCTGTG TGTGTCTGTC
 721 CCAATCTCTT CTTATAAGGA TGCAAGTCTT ATGGATCAGA GCACACCCCA ATGACCGTGT
 781 TTAACTTGAA TCACCTCTTT AAAGTTTCTC TCTCCAAATA CAATCACCTC CTGAGGCACT
 841 GTTAGGGCTT CGACACAGGA ATTCTTTTCC TAGGGGATTC AGTTCAGTCC AAAACGCCTA
 901 CCAGTGGAGA CTTGCAACAT GGCGGCCTGC TGGTCCCTCG CCAGGAATAT CACAGGCGAC
 961 TGTTCCCTGT TGCATGGAAT AGAAGGCTAT TCCAGAGTAC TGTCTCTATT TATCAGATCT
1021 GGGATACTGG GAGAAGGGCA AAATAAAGTC CAAGTAGAAA AAAAAACTAT GAAAGTTTTA
1081 GAGAGTAACC ATAATTTCAG CCCGATGTGA AACGATCCTA GATTTCAGCT GAAATAGTGA
1141 TGTGGGAAGT GAGGGGCCG GGATTCAAGG CAGAGGGAAC AGCGTAACTG AAGGCATGGA
1201 AGGAGGGAAG TGTAGGCTGT GTTTGAAGAG TGGCAGCTGC TTCCACATTT CTAAAACACA
1261 GGATGTGATT TTGGGGTGTG TTGAGACAAG GCAGAAAACT TGTTTGGAAA AATAACTTGA
1321 ATTCCCTGCA CATTTAAAAT CTCTCAGCAG AAGAAAACCC CACTCAGAAC CCCACTGTTC
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- 1501 CTCTCCGGTG TTTTGCAGTT ATTTGTTCTG CTTTCGCGAG ATGTTCTCAA ATCGTTGCAG 1561 CTACAAGCCA TGAGTCTGAA GTGTTTGTGT TCCCTCCTTA CAGGTGGTAA CTTTCTCACA
- 1621 GGCCTTGGCC ACAGATCTGA TCATTACAAT TGCGTCAGCA GTGGAGGGCA ATGTCTCTAT
- 1681 TCTGCCTGCC CGATCTTTAC CAAAATTCAA GGCACCTGTT ACAGAGGGAA GGCCAAGTGC
- 1741 TGCAAGTGAG CTGAGAGTGA CCAGAAGAAA TGACGCAGAA GTGAAATGAA CTTTTTATAA
- 1801 GCATTCTTTT AATAAAGGAA AATTGCTTTT GAAGTATACC TCCTTTGGGC CAAAATGAAT 1861 CTTGTGTCTC AATTGGAAGA GGTAAAGAAG TAGGGGGTTA GGGTGCATGG GTTGGAACGT
- 1981 CTTGTGTCTC AATTGGAAGA GGTAAAGAAG TAGGGGGTTA GGGTGCATGG GTTGGAACGT
 1921 GAGACAGGTC GAACCACAAA GCCTGCCTGG AAAAGGGGGAG TGACGTCCTA GGCTTCAGTG
- 1981 ATGTCACCTC CACTTGTTT GATCCACAAA CCAACAGGTG ACTGATTTTG
- (2) INFORMATION FOR SEO ID NO:2475:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 322 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2475:
 - 1 GTCAGCTCAG CCTCCAAAGG AGCCAGCCTC TCCCCAGTTC CTGAAATCCT GAGTGTTGCC
 - 61 TGCCAGTCGC CATGAGAACT TCCTACCTTC TGCTGTTTAC TCTCTGCTTA CTTTTGTCTG
 - 121 AGATGGCCTC AGGTGGTAAC TTTCTCACAG GCCTTGGCCA CAGATCTGAT CATTACAATT
 - 181 GCGTCAGCAG TGGAGGGCAA TGTCTCTATT CTGCCTGCCC GATCTTTACC AAAATTCAAG
 - 241 GCACCTGTTA CAGAGGGAAG GCCAAGTGCT GCAAGTGAGC TGGGAGTGAC CAGAAGAAAT
 - 301 GACGCAGAAG TGAAATGAAC TT
- (2) INFORMATION FOR SEO ID NO:2476:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4799 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2476:
 - 1 GAATTCACAT TTCTCACCTT TTGATGTATT AAGAAAGTAT GGAGAAATAT ATCCTCTATC 61 AAATTTTCAT GCCTTCAATA ATTTCTAATT CATCAGTCAG TGTTTTTCCA TCCTTTACTG
 - 121 TGATGATGCC CTTTCTTCCA AACTTTTTCA TTGCATCAGA GATGATGTTA CCAATTTCTT
 - 181 TGTCTCCATT TGCAGAAATT GTAGCAACCT GTGCAATTTC TTCAGGTTTG GTCACAGGTT
 - 241 TAGACTGCTT TTTAAGTTCA GCAATTACAG CATCAACAGC TAACATCACA CCTCTCTTGA
 - 301 TTTCCACTGG ATTAGCACCT TTGCTAACCT TCTGGAAGGC TTATTTGGAA ATAGAGCATA
 - 361 CCAGTACAGC AGCAGTGATA GTGCCATCCC CCAGTCTCTC CATTTGTGTT ATTGGCAACA
 - 421 TCTTGGACAA GTTTAGCTCC AATGCTTTTA TATTTATCCT TTAAGTCAAT TGACTTTGCA
 - 481 TCAGTCACAC CATCTTTTGT TACTTTGGGA CTTCCCCAGC TATGTTCAAT AATTACTGTT 541 CTTCCCTTTG GCCCCATTGT AATGGCTACA GCATCGACAA AAAGTCTACA CTTTGAAGCA

 - 661 GAGCCAGTAG CCTGGACACT GGTCTCATCT GGTGAAAGAC TGTGGGTAAT GGAAGCATTT
 - 001 GAGCCAGTAG CCTGGACACT GGTCTCATCT GGTGAAAGAC TGTGGGTAAT GGAAGCATT
 - 721 CTGTGGGGTG GTGGCAGGAC ATGTGCATGG TGAGGCAGGT CATCAGCAGC AAGTGAGAGC
 - 781 TGCCTCTTAC TTTCTAAAGG TGACATAGCA AGTATACAAA AAAAAATAAA ATATTAATTT
 - 841 AGGCAGAGCA CATAAAGGCT TTATTTCATA TTCCATTTCT CTGTATGCTT TCTTCACCAG
 - 901 GAAGAAATAG TTTTAGTGTC AGGAATGAAT GAGTCTGCCC CTCAATTCCA GCCTGCTCAG
 - 961 CACACAAGGA AACAAAGCCC TGACAATCAG AGTGACTCCC TGGTGACTAA GCTCCAGTCC
- 1021 TGGATGCATA TTTGTTTAGC AGTTCTGACA GCATCTGACC CAGCCCTCTC TTTGCATACC 1081 CCACCAGAAC CTTCTTTTT TTTTTTTTTC TTTGAGACTG AGTCTTGCTC TGTCGGAAGC
- 1001 CCACCAGAAC CITCIIIII IIIIIIII IIIIIIIII IIIAGAACIG AGICIIGGIC IGICGGAAGC
- 1141 GATTCCCGTG CCTCAGCCTC CCAAATACCT GGAATTATAG GCGTAAGCCA TCATGCCTGG
 1201 CTAATTTTTG TATTTTTCAT GGAGATGGGG TTTTGCCATG TTGGTCAAAT TGGTCTCACA
- 1261 CTCCTGACCT CATGTGATCC ACCTGCCTCA GCCTCCCAAA GTGCTGGGAT GACAGGTGTA
- 1321 AGCCACCATG CTAGGCTCAG AAATTTCCTT TTATAAAAAT GTCATTAAGG ATCTTGGCTG
- 1381 CACAATATCG TTACCAGCTT CCTTTAAATC CACCTCTGGC CTGCCAGGAA TCAGGGTTCT
- 1441 TCAGAACCTG ACATTTTAAA TGAAGAGGTC AGGCAGGTCA TGAGGAAAGC CTCATTGTCC
- 1501 CCATGTCTCT GTCACTGCTG CACCCCTGAG ACATCACAGA CATGGACACT GGGGCCTGCT
- 1561 TGTTTCTCAA ACTGCCCTTA GATCGAAAGA GGGAGGAACC AGGATGAATG CCACTCATTT
- 1621 TCCCAAGAAA GGCCCTCTCC TGAGTGCCCG GGATGGGGCT CTGTCCATTG CCTGGGGCCG
- 1681 CCAATTGCTA CTCTGGGTTA CGGAAGAAGG ACAGGGTCCT GAGAGACACC AGAGACCTCA
- 1741 CACAGCCCTG AAAACATGGG GCTCCTTCAT AAGTGTTTCC CATCACCAAC AGGGAGACCA
 1801 CGTGGAGGCC TTGCAGCCCT ACTCGGTGCT TCTCCACCAA ATCCCAAGGG CAGTGACGCT
- 1861 GACGTCTGTG GAAAGCAGAG AAAGCCCTGG CTCCCAAAGC CCTGAAGTCC TGTGGAGCTG

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1921 ACATTCCCTG AGTGACGGTG TGAATGGAAG GAACTCAAGT GCGGGTGGTA GGCCACCTCC
1981 TGGCCCAGGC CTGGGTGAAC TCTGAGGGGA CACATGTAGT CACAATCCCA TCCTCCCATT
2041 CTCCTTCTCA GAGGAAGGAA GTGGGCATCC ATCTGCCTCA TCTCTCTCCC GTGGGGAAGA
2101 TGGGGAGTTT CAGGGGAACT TTCACATAAA TTTCACCAGC TCAGATCTCC TGTGAGGATG
2161 GGGCCCACCA TGCTCCCGGT GCTGCCAGAG GCCCTGAGCC CCTCCAGGGT CCCTGGGTTT
2221 GAGCCAGCCC TGTATCATCC CCAGGAGCTG AATGTCCGAA CAATGGATAG AATTAGATGG
2281 AAAGAGCTCT CAATTTGGCC TGAGACTGTC CCCAGATACT CAGGAAAAAC AGGACGTCGC
2341 ACAGAGTGGG CAGCAGGTGA GTGGCAGGTT ATAGGTCCTG AGTTTGAGTT TGTTCTCACG
2401 TGAGACAGAC CCAGCCCCTC ACTCCATTCA CACACTGGGT TTTAAATGGT GCAAGATAGG
2461 AGGAATTTC TGGTCCCAAG AGCAGGAGGA AGGGATTTC TGGGGTTTCC TGAGTCCAGA
2521 TTTGCATAAG ATCTCCTGAG TGTGCATTGT TCTTTGAGGA CCATTCTCTG ACTCACCAGG
2581 TAAGTGGCTG AATTCTAACC TCTGTAATGA GCATTGCACC CAATACCAGT TCTGAACTCT
2641 ACCTGGTGAC CAGGGACCAG GACCTTTATA AGGTGGAAGG CTTGATGTCC TCCCCAGACT
2701 CAGCTCCTGG TGAAGCTCCC AGCCATCAGC CATGAGGGTC TTGTATCTCC TCTTCTCGTT
2761 CCTCTTCATA TTCCTGATGC CTCTTCCAGG TGAGATGGGC CAGGGAAATA GGAGGGTTGG
2821 CCAAATGGAA GAATGGCGTA GAAGTTCTCT GTCTCCTCTC ATTCCCCTCC ACCTATCTCT
2881 CCCTCATCCC TCTCTCCCT TCCTCTCTCT GTGTGTCCCC TCCATCCTTT TCTCCTGCTT
2941 CTCTCTCTC TTCCCTCTCT CTCTTTTTTT CTGTCTTTCT TTTTCCTCTC TCCCTAGAGC
3001 ATGTCTTTCT TTCTTTCTCT TTCCTTTCTT CTACCCACAC TTTTAGACTG AGTAGACTGA
3061 ATGCCCTATT TAATTGAACC AAGCATTGCT TCCTTCAATA GAAAAGGAGT TTGAGAACCC
3121 AATGGACAAC TCACTCGTTC TTCTAAGCCA ATATGAAGGA GCCCAGTAGT TTGTAAATAT
3181 CATCTCTTCA CTGCTTTCCA TGCTACAACT GCTGAGACTA TGGTTGAAAC CTGTTAGGTG
3241 ACTTTTTAAA TAAAAGGCAG AAATTTTGAT TTTATCTAAA GAAAGTAGTA TAGAATGTCA
3301 TTTTCTAAAT TTTTATATTT AAAGAGTAGA TACTGCAACC TAGAGAATTC CAGATAATCT
3361 TAAGGCCCAG CCTATACTGT GAGAACTACT GCAGCAGACA CTCTGCCCCC AGGACTTTTC
3421 TGATCAGAGG CCCTGAGAAC AGTCCCTGCC ACTAGGCCAC TGCAGGTTCA CAGGACAGGG
3481 ACAGCCCATT GAAACCAACT TTTAAACCTG GATGCCTAAC CTTCATTTTC TCCTTGATAT
3541 TATGAAAATA AAATAAAAAC CATGAAAGGA TAAAAGAGGG AGAGTGGAAG GGAAGGATGG
3601 AGAAAGGGAA AAAGAAAATT TGAGAGTAAA TCCTAAAACA ATTAATCTAA TAGATATCAT
3661 CTTGTGAAAT CCTCATTTTA CCAATCTTAT TTATGAGTCC TGGGTTTTGT GAGAACAATG
3721 GGGTTCTGAG AGGCACCAGA GACCTCATAT TTTCCAAAAC CTAGAACAGT ATAATGAAGG
3781 AAGGAGGGAA GGAGGGAGGG AGGGAGGGAA GGAGGGAAGG AGGGAGGGAAAC
3841 AAAAAGAAGA ATGAGGTTGA AACCAGGACT TAGATATTAG AAACAAGCCA TTACAAAATT
3901 TATTTCTATG GTTAATTGTG GTTTTCAACT GTAAGTTACT TGGTGTTAAT TTCCTATTAA
3961 ACAATTTCAG TAAGTTGCAT CTTTTTTATC CCATCTCAGA TCAAATACTT AACAGACTAA
4021 ATGATTTGAA AAAGCAAAAG TTTACTGGCT TGTGTGTGTT AAAATGGAGG TATGGTGGCT
4081 TTGATATTAT CTTCTTGTGG TGGAGCTGAA TTCACAAGAG ATCGTTGCTG AGCTCCTGCC
4141 AGACCCCACC TGGAGGCCCC AGTCACTCAG GAGAGATCAG GGTCTTTCAC AATCAGGTTC
4201 TACAAAATA AACATCCCCC AAACCACAGC AGTGCCAGTT TCCATGTCAG AAACTTAGAT
4261 CCAAATGACT GACTCGCGTC TCATTATCAT GATGGAAAAG CCCAGGCTTG AGAAAGAAGC
4321 CCGCTGCGGA TTTACTCAAG GCGATACTGA CACAGGGTTT GTGTTTTTCC AACATGAGTT
4381 TTGAGTTCTT ACACGCTGTT TGCTCTTTTT GTGTGTTTTT TCCCTGTTAG GTGTTTTTGG
4441 TGGTATAGGC GATCCTGTTA CCTGCCTTAA GAGTGGAGCC ATATGTCATC CAGTCTTTTG
4501 CCCTAGAAGG TATAAACAAA TTGGCACCTG TGGTCTCCCT GGAACAAAAT GCTGCAAAAA
4561 GCCATGAGGA GGCCAAGAAG CTGCTGTGGC TGATGCGGAT TCAGAAAGGG CTCCCTCATC
4621 AGAGACGTGC GACATGTAAA CCAAATTAAA CTATGGTGTC CAAAGATACG CAATCTTTAT
4681 CCTAGTAATT GTGGTCATTG GGTGATGTTG GTTTGGGCAG GCCATCTCTA ATATCCTTGA
4741 AACACCTTTT TCTGCTCTCC AGGAAGGGGT CAGGGCTGCC ACAGCGGGGC TTGGAGTGC
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- (2) INFORMATION FOR SEQ ID NO:2477:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3710 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2477:
 - 1 GAATTCCCTG TAAGCCCTGT TACAGGGGCT GCACCCCAGA TACAACCTGA CCTGTGTCCA
 - 61 AGGCGGGCAA CTCAACCCTT AGATATTGAA TGGGTCCCAT GGCACCAATG CTTAAACACC
 - 121 AGCAGCCCTC ACAACCACAG ATCGTGTTTT AAGGATGAGG AGGTAGTTCT CTGGATGCAC
 - 181 AGGCTTCAAT CCAAATGGGC TCATGACGCC GCAGCACACA CCCAGTCTGC AGCCTGAAGA
 - 241 GTTGGAGCAT TGCATTCACA GAAAGCATCC AGACATGATC ATGGGCTCAG GGATACACCT
 - 301 GTTCTCCGAT GTGTACCAGT GAAGGATGGA AACTCCTATG CCTCCCAGAA AGCACCACTC

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121	AGGCITITGC	ATTCCCCACAC	, ICIGAAGGCC	CACAAGGCTG	AGAGGCTGTG	CAACACCAGC
101	CCCACCCTCA	MIGCCCAGAC	TCCCACCTCC	TTTCTTGGGT	GGCCATCTGG	AAAGGCCACT
5/1	TOUCHCCTGP	1 TGGCTAATGC	CTCAGACCAG	TTCTTGGCCC	AGATGATCCT	AGACAATTGT
601	CCCCCCTCT	ACIGITCATI	GGCCAAGCAA	ACAGGTGATA	GTACCTCTGG	GGAACCACAT
661	ACCCCACCETA	CATCCAGATC	TCAGGAGAAC	CCAAAAATGT	CTGTTCCACA	TAGCAACAGA
701	. AGCCCAGGTA	GCACTCAGTC	TCACCTGGGT	GTTCTCCAAC	ATCCCAGCTC	AGCCAAATGG
721	CTTTCATTAG	TTTTTATGGT	' TAGACCCCAG	GTCCTCGGGA	CACTGCTTTA	GAAACACATT
781	. CCAAATCCTC	CTCTGTGTGC	AGGTGGCATT	CCTATCCCAA	TCTCTTTGCA	GGGCGTATAC
841	TGTGATACGC	AGCCAGGCTG	TCCCAGAGGC	CTTAAATATT	CCCTTGGTGC	AGGTAGTTCA
901	GCTTAGCCAC	AGCCAATGCA	TCACAGGGTC	AACTGTGTTA	GGAGCCATTG	AGAATCCATA
961	GTTGGTTGCT	GCCTGGGCCT	GGCCAGGGCT	GACCAAGGTA	GATGAGAGGT	TCCTCTGTGG
1021	AGTTCTACTT	TAACCTCACC	TTCCCACCAA	ATTTCTCAAC	TGTCCTTGCC	ACCACAATTA
1081	TTTAATGGAC	CCAACAGAAA	GTAACCCCGG	AAATTAGGAC	ACCTCATCCC	AAAAGACCTT
1141	TAAATAGGGG	AAGTCCACTT	GTGCACGGCT	GCTCCTTGCT	ATAGAAGACC	TGGGACAGAG
1201	GACTGCTGTC	TGCCCTCTCT	GGTCACCCTG	CCTAGCTAGA	GGATCTGTAA	GTACTACAAA
1261	ACTTAAACTT	TACACTGAGT	TTTCATCATT	GAAGCTATGC	CTCCAATCTG	ACCTCTGACT
1321	GTGGGGCCGC	CCCAGAGGGA	CCCAGCGGGT	GAATCCCTGC	TAGGAACGTC	TGTCCGGACC
1381	TCTGGTGACT	GCTGGGGACG	ATGGCTTCCA	GCTAACTTAA	TAGAGAAACT	CAAGCAGTTT
1441	CCTTCTAAAT	ACACATGTCA	CATGTCCTGG	TTGACATGTC	CAGTAAGAAG	ACTATCACAG
1501	GTCTTTGGAA	CATTCTTTTG	AGAGAAACCT	ATTTAGGTCC	TTGGTCTGTT	TTTCAATCAG
1561	GTTGTTTGAT	TTTTGCTATT	GAGTTGTTGG	AATTCCTTAT	GTATTCAGAT	ATTTGCCCCT
1621	TCTGCCATGT	AGGTTTTGCA	AATATTTTCT	CTCATTTTCT	GGGTTATCTT	TTCACTCGGT
1681	TGATTGTTTC	CTTTGCTGTG	CAGATGCTTT	AGCGTTAAAT	GAAGCCACAC	TTGTCTATTT
1741	TCCCTTTTAT	TGCCTGTGCC	TTTGGTGTCA	TAGCCAAGAA	ATCATTACCT	ACATCAATGT
1801	CAAAAGCTTT	ATCCTTCTAT	ACACTTCTAG	TAGTTTATGG	TTTCAGTTGT	TACATTTAGG
1861	TTTTCAATTC	ATTCTGAGTT	GATGTTCCTA	CATGGTGTGA	GATAAAGATT	TAAATACATA
1921	CATATATAAA	ATCATGAGGT	AGTGTACACT	ATAAATATAC	AATTGTTAAT	TGTTACTCAA
1981	GTCTAAGTAG	AGGTGGAAAT	AATAAACTTT	CTTTTTTTTA	CTTAAACCAC	TCTGTGTCAC
2041	TGAGCTGATT	TCACCTTTAG	CCTGATAAAA	TCATTGTCCT	CTCCACCCTG	ATTCCTACAG
2101	GAGACTACTC	ACCCCATAAC	CTCAAAAACC	TCTTCATGAG	GATGGTAAGT	CACCTGAATC
2161	CTGAAGTGAA	TTACTCGCTA	TTCCATTGGA	ACTCATATAG	GACACCAGAA	TCTAGACCTC
2221	CAGAGAACAG	CAGGACCCAT	CTTCAGAAAA	TAAGAAGCAT	TTGTTCCCTG	AGCCTGTTGA
2281	ATCAAAGTGC	AATTTCTATT	CTTTTTGGAA	TGTTAAAAAG	TGAATCATAA	TATTTAAGCA
2341	GGTGAACCCA	CGAGTAACAT	AGCAGGGTCT	TTCTTGTCAT	TATTAGCTCC	AACCTAGCAC
2401	AGACATTAAA	GGTACAGATG	TATACTAGCA	TGAAACTGGG	AGAACAGGAG	CATTCGAGCA
2461	ACCTTGAGAC	CAATGGGCCT	CTCTTATAAA	ATGCACACCT	CCTCTCACTG	AGATTGAGGA
2521	AGGTTTCTTG	TCTCCGAGCC	TTCTCCCAGT	AGAGCTATAA	ATCCAGGCTG	GCTCCTCCCT
2581	CCCCACACAG	CTGCTCCTGC	TCTCCCTCCT	CCAGGTGACC	CCAGCCATGA	GGACCCTCGC
2641	CATCCTTGCT	GCCATTCTCC	TGGTGGCCCT	GCAGGCCCAG	GCTGAGCCAC	TCCAGGCAAG
2701	AGCTGATGAG	GTTGCTGCAG	CCCCGGAGCA	GATTGCAGCG	GACATCCCAG	AAGTGGTTGT
2761	TTCCCTTGCA	TGGGACGAAA	GCTTGGCTCC	AAAGCATCCA	GGTGAGAGAG	GCAGGCATGC
2821	AGAGCTGCTA	AGTCTAGAGG	GAAGGACGGG	AGAGAGGTTC	CAGAGTTGGG	TCTCAGCAGT
2881	CTATGTCACT	GAGGTGGCTT	CACTTAGAAT	CTCTGGGCAT	TGATTTTCTC	ATCTAGAAAT
2941	TGAACAGAGA	GCCAAATAAA	CCTGAGAAAC	TTTATTTCTC	CAAAGACTTG	ΔΤΤΟΓΑΛΑΛΙ
3001	ACATCTGTGA	AATTCACTAA	GTTTAAGATA	TGAAGAGACA	GACTAGTTAT	TTCTCCATGAA
3061	AAACAAGTAG	ACTTAGTTGT	AAAGAGAACA	TTTTACTCTA	TCTACAGAAG	ACCUTUTANA
3121	AACTGCAGCC	AAGCCTGAGG	GTAAGTTCAG	GTGTGTGT	GATGGGGCAG	CAATCCAAAA
3181	ATGAGAGCAA	AGGAGAATGA	GTCTCAAATT	CTGTGTGACA	AGCACTCCTC	TCCCTCTTT
3241	TTCCTATCGA	CTGAGGTTGT	TCGTGCTACC	GGCTGCAATG	UDCCCTGCTC	CACCTCTCAC
3301	CTAGCATGTG	ACTTCCCCGA	GATTCTTTTT	CTTACCCACT	CCTAACTCCA	TACTCIGICAG
3361	CTCATGCTCT	CCCTGTCCCA	GGCTCAAGGA	AAAACATGGA	CTCCTATCCCA	TACTCAATTT
3421	CGTGCATTGC	AGGAGAACCT	СССТАТССВА	CCTGCATCTA	CCACCCATGC	AGAATACCAG
3481	TCTGCTGCTG	AGCTTGCAGA	AAAACAAAAA	TGAGCTCAAA	ATTTCCTTTC	ACACCURACAC
3541	GGAATTGCTA	ТТАСТССТСТ		CAATTTCCTT	MCCMCAMCMC	AGAGCTACAG
3601	CTTGTTACAA	GATTTCTCTCTC	TTTCCACCTC	TTTAATGTGT	CAMAMOMOMO	AAATAAATGC
3661	САСТТСССАТ	ACACGTACCA	DDDCCCDDCIC	TCAAATTTTT	GALATGTGTC	TGTGTCAAGA
		ONCOTACCA	AAACGCAAAA	I CAAATTTTT	GAACAATATA	

- (2) INFORMATION FOR SEQ ID NO:2478:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 464 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEO ID NO:2478:
- 1 CCTACCTTGC TATAGAAGAC CTGGGACAGA GGACTGCTGT CTGCCCTCTC TGGTCACCCT
- 61 GCCTAGCTAG AGGATCTGTG ACCCCAGCCA TGAGGACCCT CGCCATCCTT GCTGCCATTC
- 121 TCCTGGTGGC CCTGCAGGCC CAGGCTGAGC CACTCCAGGC AAGAGCTGAT GAGGTTGCTG
- 181 CAGCCCCGGA GCAGATTGCA GCGGACATCC CAGAAGTGGT TGTTTCCCTT GCATGGGACG
- 241 AAAGCTTGGC TCCAAAGCAT CCAGGCTCAA GGAAAAACAT GGACTGCTAT TGCAGAATAC
- 301 CAGCGTGCAT TGCAGGAGAA CGTCGCTATG GAACCTGCAT CTACCAGGGA AGACTCTGGG 361 CATTCTGCTG CTGAGCTTGC AGAAAAAGAA AAATGAGCTC AAAATTTGCT TTGAGAGCTA
- 421 CAGGGAATTG CTATTACTCC TGTACCTTCT GCTCAATTTC CTTT
- (2) INFORMATION FOR SEO ID NO: 2479:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3834 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2479:
 - 1 CCTGAGACAG AGGCAGCAGT GATACCCACC TGAGAGATCC TGTGTTTGAA CAACTGCTTC
 - 61 CCAAAACGGA AAGTATTTCA AGCCTAAACC TTTGGGTGAA AAGAACTCTT GAAGTCATGA 121 TTGCTTCACA GTTTCTCTCA GCTCTCACTT TGGTGCTTCT CATTAAAGAG AGTGGAGCCT
 - 181 GGTCTTACAA CACCTCCACG GAAGCTATGA CTTATGATGA GGCCAGTGCT TATTGTCAGC
 - 241 AAAGGTACAC ACACCTGGTT GCAATTCAAA ACAAAGAAGA GATTGAGTAC CTAAACTCCA
 - 301 TATTGAGCTA TTCACCAAGT TATTACTGGA TTGGAATCAG AAAAGTCAAC AATGTGTGGG
 - 361 TCTGGGTAGG AACCCAGAAA CCTCTGACAG AAGAAGCCAA GAACTGGGCT CCAGGTGAAC
 - 421 CCAACAATAG GCAAAAAGAT GAGGACTGCG TGGAGATCTA CATCAAGAGA GAAAAAGATG
 - 481 TGGGCATGTG GAATGATGAG AGGTGCAGCA AGAAGAAGCT TGCCCTATGC TACACAGCTG
 - 541 CCTGTACCAA TACATCCTGC AGTGGCCACG GTGAATGTGT AGAGACCATC AATAATTACA
 - 601 CTTGCAAGTG TGACCCTGGC TTCAGTGGAC TCAAGTGTGA GCAAATTGTG AACTGTACAG 661 CCCTGGAATC CCCTGAGCAT GGAAGCCTGG TTTGCAGTCA CCCACTGGGA AACTTCAGCT
 - 721 ACAATTCTTC CTGCTCTATC AGCTGTGATA GGGGTTACCT GCCAAGCAGC ATGGAGACCA

 - 781 TGCAGTGTAT GTCCTCTGGA GAATGGAGTG CTCCTATTCC AGCCTGCAAT GTGGTTGAGT 841 GTGATGCTGT GACAAATCCA GCCAATGGGT TCGTGGAATG TTTCCAAAAC CCTGGAAGCT
 - 901 TCCCATGGAA CACAACCTGT ACATTTGACT GTGAAGAAGG ATTTGAACTA ATGGGAGCCC
- 961 AGAGCCTTCA GTGTACCTCA TCTGGGAATT GGGACAACGA GAAGCCAACG TGTAAAGCTG
- 1021 TGACATGCAG GGCCGTCCGC CAGCCTCAGA ATGGCTCTGT GAGGTGCAGC CATTCCCCTG
- 1081 CTGGAGAGTT CACCTTCAAA TCATCCTGCA ACTTCACCTG TGAGGAAGGC TTCATGTTGC
- 1141 AGGGACCAGC CCAGGTTGAA TGCACCACTC AAGGGCAGTG GACACAGCAA ATCCCAGTTT
- 1201 GTGAAGCTTT CCAGTGCACA GCCTTGTCCA ACCCCGAGCG AGGCTACATG AATTGTCTTC 1261 CTAGTGCTTC TGGCAGTTTC CGTTATGGGT CCAGCTGTGA GTTCTCCTGT GAGCAGGGTT
- 1321 TTGTGTTGAA GGGATCCAAA AGGCTCCAAT GTGGCCCCAC AGGGGAGTGG GACAACGAGA
- 1381 AGCCCACATG TGAAGCTGTG AGATGCGATG CTGTCCACCA GCCCCCGAAG GGTTTGGTGA
- 1441 GGTGTGCTCA TTCCCCTATT GGAGAATTCA CCTACAAGTC CTCTTGTGCC TTCAGCTGTG
- 1501 AGGAGGGATT TGAATTATAT GGATCAACTC AACTTGAGTG CACATCTCAG GGACAATGGA
- 1561 CAGAAGAGGT TCCTTCCTGC CAAGTGGTAA AATGTTCAAG CCTGGCAGTT CCGGGAAAGA
- 1621 TCAACATGAG CTGCAGTGGG GAGCCCGTGT TTGGCACTGT GTGCAAGTTC GCCTGTCCTG
- 1681 AAGGATGGAC GCTCAATGGC TCTGCAGCTC GGACATGTGG AGCCACAGGA CACTGGTCTG
- 1741 GCCTGCTACC TACCTGTGAA GCTCCCACTG AGTCCAACAT TCCCTTGGTA GCTGGACTTT
- 1801 CTGCTGCTGG ACTCTCCCTC CTGACATTAG CACCATTTCT CCTCTGGCTT CGGAAATGCT
- 1861 TACGGAAAGC AAAGAAATTT GTTCCTGCCA GCAGCTGCCA AAGCCTTGAA TCAGACGGAA
- 1921 GCTACCAAAA GCCTTCTTAC ATCCTTTAAG TTCAAAAGAA TCAGAAACAG GTGCATCTGG
- 1981 GGAACTAGAG GGATACACTG AAGTTAACAG AGACAGATAA CTCTCCTCGG GTCTCTGGCC
- 2041 CTTCTTGCCT ACTATGCCAG ATGCCTTTAT GGCTGAAACC GCAACACCCA TCACCACTTC
- 2101 AATAGATCAA AGTCCAGCAG GCAAGGACGG CCTTCAACTG AAAAGACTCA GTGTTCCCTT
- 2161 TCCTACTCTC AGGATCAAGA AAGTGTTGGC TAATGAAGGG AAAGGATATT TTCTTCCAAG
- 2221 CAAAGGTGAA GAGACCAAGA CTCTGAAATC TCAGAATTCC TTTTCTAACT CTCCCTTGCT
- 2281 CGCTGTAAAA TCTTGGCACA GAAACACAAT ATTTTGTGGC TTTCTTTCTT TTGCCCTTCA
- 2341 CAGTGTTTCG ACAGCTGATT ACACAGTTGC TGTCATAAGA ATGAATAATA ATTATCCAGA 2401 GTTTAGAGGA AAAAAATGAC TAAAAATATT ATAACTTAAA AAAATGACAG ATGTTGAATG
- 2461 CCCACAGGCA AATGCATGGA GGGTTGTTAA TGGTGCAAAT CCTACTGAAT GCTCTGTGCG
- 2521 AGGGTTACTA TGCACAATTT AATCACTTTC ATCCCTATGG GATTCAGTGC TTCTTAAAGA
- 2581 GTTCTTAAGG ATTGTGATAT TTTTACTTGC ATTGAATATA TTATAATCTT CCATACTTCT

2641	TCATTCAATA	CAAGTGTGGT	AGGGACTTAA	AAAACTTGTA	AATGCTGTCA	ACTATGATAT
2701	GGTAAAAGTT	ACTTATTCTA	GATTACCCCC	TCATTGTTTA	TTAACAAATT	ATGTTACATC
2761	TGTTTTAAAT	TTATTTCAAA	AAGGGAAACT	ATTGTCCCCT	AGCAAGGCAT	GATGTTAACC
2821	AGAATAAAGT	TCTGAGTGTT	TTTACTACAG	TTGTTTTTTG	AAAACATGGT	AGAATTGGAG
2881	AGTAAAAACT	GAATGGAAGG	TTTGTATATT	GTCAGATATT	TTTTCAGAAA	TATGTGGTTT
2941	CCACGATGAA	AAACTTCCAT	GAGGCCAAAC	GTTTTGAACT	AATAAAAGCA	TAAATGCAAA
3001	CACACAAAGG	TATAATTTTA	TGAATGTCTT	TGTTGGAAAA	GAATACAGAA	AGATGGATGT
3061	GCTTTGCATT	CCTACAAAGA	TGTTTGTCAG	ATGTGATATG	TAAACATAAT	TCTTGTATAT
3121	TATGGAAGAT	TTTAAATTCA	CAATAGAAAC	TCACCATGTA	AAAGAGTCAT	CTGGTAGATT
3181	TTTAACGAAT	GAAGATGTCT	AATAGTTATT	CCCTATTTGT	TTTCTTCTGT	ATGTTAGGGT
3241	GCTCTGGAAG	AGAGGAATGC	CTGTGTGAGC	AAGCATTTAT	GTTTATTTAT	AAGCAGATTT
3301	AACAATTCCA	AAGGAATCTC	CAGTTTTCAG	TTGATCACTG	GCAATGAAAA	ATTCTCAGTC
3361	AGTAATTGCC	AAAGCTGCTC	TAGCCTTGAG	GAGTGTGAGA	ATCAAAACTC	TCCTACACTT
3421	CCATTAACTT	AGCATGTGTT	GAAAAAAAA	GTTTCAGAGA	AGTTCTGGCT	GAACACTGGC
3481	AACGACAAAG	CCAACAGTCA	AAACAGAGAT	GTGATAAGGA	TCAGAACAGC	AGAGGTTCTT
3541	TTAAAGGGGC	AGAAAAACTC	TGGGAAATAA	GAGAGAACAA	CTACTGTGAT	CAGGCTATGT
3601	ATGGAATACA	GTGTTATTTT	CTTTGAAATT	GTTTAAGTGT	TGTAAATATT	TATGTAAACT
3661	GCATTAGAAA	TTAGCTGTGT	GAAATACCAG	TGTGGTTTGT	GTTTGAGTTT	TATTGAGAAT
3721	TTTAAATTAT	AACTTAAAAT	ATTTTATAAT	TTTTAAAGTA	TATATTTATT	TAAGCTTATG
3781	TCAGACCTAT	TTGACATAAC	ACTATAAAGG	TTGACAATAA	ATGTGCTTAT	GTTT

(2) INFORMATION FOR SEQ ID NO:2480:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 141589 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2480:

(:	X1) SEQUENCE	DESCRIPTIO	N: SEQ ID NO	0:2480:		
1	GATCAAAATT	TTTACCTATT	ATGCATTTGA	TATATAAATA	AGTATATAAA	TGCACACACA
61	GACACAGCAA	TGATGGTGAA	CAGTCTTCAT	ACAATTATAT	GGATGAATCT	CATAAAATGC
121	TGAGTTAAAG	AAATCAGACC	AAAGAACATA	TACTGAAAGA	TTCTCTCTAT	ATACAAAGTT
181	CAAAAATAGG	TGGACCAATT	CATGGTGGTG	TTAGAAATCA	GAAGAGAGGC	TACCTTTGTG
241	GGGAGGGGAC	AGTTTAATGC	CCAGAAGCGG	TAAATAAGGA	ATCCTCTGGG	GAGTGGTAAT
301	GATCTGGATG	CTGGCTACAG	GATGTGTTGG	TTGTAAAAAT	GCATTTTTTT	ATATCTAGCT
、361	TTTTCCATGT	GTATATTATA	CTTCAAAGAA	GTTCAGTTAA	TAATTTCTCA	TGTCACTGTA
421	GAGTAGCTCA	GTTAGCCCCA	GCAAGCCTCT	GGCTTAATCT	TGTTTTACCT	TAAGCCATCA
481	GTCATTTACA	AGTAGGAAAA	TTCACAGGGA	AAGTTAGAGT	ATAAAATCCA	GAATGAAGGT
541	TTACTGGGTA	AGAGTCTCTC	CATTTTCCAA	AGCCCGTTTA	TTTCTTGATT	CCAGTTCTTA
601	AGAAGTCTCA	GCATTGTGTC	TTTTTCATGT	ATCTTACAAG	AAGACAGCAT	GTGCTTCTAA
661	CACCTGATAC	ATTGTATCTA	CCAGCACTTG	GTAAACAGAA	AAGAACCACA	TTTTTCTTGT
721	AGGAGAAATT	TGGTGCCTAT	TTCCTACCAG	GCACCAATAA	GTGGGACCAA	TAGGTGGGAT
781	TAAAGATACA	GTAGAAAGTA	TTTAAAACTT	GCCAGGGGGC	AATAGTCTGA	AAATAAGTAA
841	ATTGGTGCTA	TAGAATGGAA	GTTACAGGCT	TCTTTCTTTT	TTCCCACAAG	ATCTGCTCCT
901	TGAGCCCCTA	GAGACTTTTC	TGTCTGTTAC	TGTTTCTTCA	TTCCTCATCT	GCAGAGCCAG
961	CCCTGAGAAG	TGCAGACCAA	AGCCAGGGAA	GGCTCTGCAA	AGATGTACAA	ATGGAAGTCA
1021	CCTTAATAAC	CTCTGACTGC	TGCGCATAAT	ACATTTCACT	CAAAAGAGGG	GTTAAACAAT
1081	GGAACAGAAT	ACAGAGGCCA	GAAATAATGC	TGAACACTGA	CAACCATCTG	ATCTTTGACA
1141	AAATCCACAA	AAACAAGCAA	TGGAGAAAGG	ACTCCCTATT	CCATAATGGT	GCTGGGATAA
1201	CTGTCTAGCT	ATATACAGAA	GATTGAACCT	GGGCCCCTTC	CTTACATCAT	ATACAAAAA
1261	TAACTCAAGA	TGGAGTAAAG	ACTTAAATCT	AAAACCAAAC	ACTATAAAAA	CCCTGGAAGA
1321	TAGCCTGGGA	AATACCATTC	TGGACATAGG	ACCTGGCAAA	GACTTCATGA	CAAGACACCA
1381	AAAGCAATAG	CAACAAAAAC	CAAATTGACT	AATGAAACTA	ATGAAACTCT	TTAGTTGTAC
1441	AACAGATAGT	TTATCTGTAC	AACAAAATAA	ACTATCAACA	GAGTAAACAA	CCTACAGAAT
1501	GGAAAAATTT	TTTGCAAACT	ATGCATCTGA	CAAAGGTCTA	ATATCCAGAA	TCTATAAGGA
1561	ATTTAAACAA	ATTTACAAGC	AAAAAAATGA	CCTCATTAAA	AAGTGGGCAA	AGGACATGAA
1621	CAGATGCTTT	TCAAAATAAG	ACATTCACAC	ATCCAACAAC	CATATGAAAA	GATGTTTAAC
1681	ATCACTAATC	ATTAGAGGAA	TACAAATCAA	AAGCATAATA	AGATACCATC	TAATACCAGT
1741	AGGAATGACT	ACTATTAAAA	AGTCAGACAA	TAACAGATGC	TGGTGAAGGT	TGTGGAGAAA
1801	AGGGAATGTT	TATGCACTGC	TAGTGGGAAT	GTAAACTAGT	TCAGCCATTG	TGGAAGAGAG
1861	TGTGGTGATT	CCTCAAAGAA	TGTAAAACCG	AACTGCCTTT	CAATCCAGCA	ATCCCATTAT
1921	TGGATATACA	CCAAAAGGAA	TAGAAATTGT	TTTACCGTAA	AGGCGCATGC	ATGCATATGT
1981	TCATTACAGC	ACTATTTACG	ATAGCAAAGA	CATGGAATCG	TCTAAATGCC	CATCAGTGGT
2041	AGACTAGCTA	AAAAAAAA	AATGTGGTAC	ATATACATCA	CAGAATAGTA	TGCAGCCATA
2101	AAAATGAACA	AGATCATCAT	GTCCTTTGCA	GCAACATGGA	TGTAGTTGGA	GGCCATTATC
2161	CTAAGCAAAT	TAATGCAGGA	ACAGAAAGCC	AAATACCACA	TGTTCTCATT	TATAAGTGAC

222	l AGCTAAATAT	TGAGTACACA	TGGACACAA	GAAGGGAACA	ATAGACATGO	GACCTACTTG
228.	l AGAATAGAGO	G GTGGGAGGAG	GGTGAGGATC	CAAAAAGTACC	CATAGGACAC	ТСТССТТАТТ
234.	l ACCTGGGTG#	A TGAAATAATI	' TGCACACCA	ACCCCTGTGA	CACACAATTT	ACCTATATAG
240:	l AAAACCTGTG	G CATGTACCCC	TGAACCTAAA	AGTTAATGGT	GGGGGGGTGG	GGTTAAGCTA
246.	L CTTTGTGGTA	A TAAATCTGAC	CATTCATATI	` AAAATAAAAT	ATTTACCTCA	ΤΤΑΓΑΓΤΑΑΤ
252.	L TAACATTTAT	' TAAGCAAAGA	GCCAAGTACC	TTACACACAT	GATGTTTAAT	CTCACAATGA
258.	l TCTTTAATCT	' CATAACAACC	: GTCCATTGTA	TGTACATATG	TGGAAATTGA	GCCTTGGAGA
264.	i gattaaatgo	CATGGGGCATG	CCATTTGACT	' AGAAACTGGA	AGCATCAGGA	ΤΤΤΑΝΝΟΤΟΝ
2701	L GTTCTGAATG	GTTTTGTAGG	CTTTGTTTT	'TCCACATTAT	AGCATGGCCT	GCCATGAAGA
2761	L ACAGGTCCTT	TCTGGTGTTT	GTCTTGTTTG	GTTTAAGTGA	AGCAAATATT	TATTTAAATA
2821	L TTCAAGATAT	' GCTGTTAAAT	' TTTTACTCAA	AAATTTGAGT	ACAGTATGGA	$TCTTCTC\Delta\Delta$ C
2881	L CCAAATAACT	CTTATTCAAT	GCTTAGTTGA	GAAATTTTAT	GGAGTAGTTC	TCAATTTTTA
2941	L TGTAGTTCCA	CTGCAAAGGT	' AAGTCTTATG	GAAAGATTCA	CTGTAATTT	ጥጥጥጥርርጥርልጥ
3001	L TTGGACATCA	GCTTTTTCTT	TTCCTCAGAC	CCGCTGAAAG	ATAATTTTTA	AAATAAAAAC
3061	CTTGTTTTTA	TATCAAGTGG	GGACATTTTT	TCCAAATGAA	AACCGTGTAT	ΤΟΑΤΤΤΤΑΤΑ
312]	. TGATAAAATC	: AATGTTATTA	TTTTTAAAAT	TTTGATTTAA	AAATCATTAA	ΑΑΑΨΑΑΑΨΨΨ
3181	. TCAGATATTA	CCTGAAATTC	TACCATCCAG	AGATAATAGT	GCTTAAAGAT	ΤΤΓΑΤΑΤΑΤΑ
3241	GACACACACA	CATATATACA	TATATATCAT	CCTAAACTTC	TTTGTATAAA	TGTATATAAA
3301	. GTTTTTAATA	AAAACTAGGA	GATTAATGCC	CTTTGAATGA	AAATAAATAC	AATGTGTATG
3361	. CTTTAACATC	TTGCCTTTAC	TTTATAACAT	TTATCACAGC	AGTCATGAGA	TAATGATTTA
3421	CATGGTCATT	GTTAGTAAGC	TAATAGCTAA	GTGCATGAAC	TCTGGAGCTA	GCCTCCCTGG
3481	ATTTTAATCC	CAGATCTGTC	ACTGACCAGC	TGAGCAATAC	TAGGTAAATT	CCTCTTCTTC
3541	. CTTAGTTTCT	TCATCTGTAA	AATAGAGATA	AAAATAATAT	CCACCTCATA	GGATTGGTGT
3601	GAGCATTAAA	TGAGCATACG	TATGTAGGCC	ACTTAACAAC	AATGCCTTCA	CATACTCAAC
3661	ACAAATATAC	GAGCTGTTGT	CTTATTGGGC	TCATGTTTTT	CCTACCACTA	AGCCGCATGC
3721	. ATGCAAGGAC	CATGTTGGTT	TTGTTCCACA	TTGCATCCCC	AACCTGGTAT	ACAGTGTGCA
3781	TTCAATAGTT	GTTGACTATT	ATTACTAGTG	GCATTTAACA	AATATCTGTT	AAATGAGTGA
3841	AGAAATACCC	ATTTACTGCA	AGTGTGTCTA	ATATTGATGG	CATAATGGGG	GAAACTCAAA
3901	CTCTGGAGTC	AAACAGGTTT	TAAAACCTTA	TTCCCTCATC	CTCAGTTATT	GACGTTTTTT
3961	TTTTGGCAGG	TGTGTGTGTG	GGACAACTTA	TTGAACTTTT	CTGAATTTCC	AGCTTCGCAT
4021	ATATAAAATA	GAGATAGTGA	TTCATTCTTG	CAATGTATGG	ATTTGAGACA	ΑΤΤΩΤΩΤΑΔΩ
4081	TTTATCAATA	AATAGTAGCT	ATTTTTGTAT	AAGTATTACA	TATAATATCC	AGGCCACTGC
4141	TTTGCATAAC	CCAAAAGGGG	CACCATTCAT	GCAGAATACA	ACATAAATGG	ТСТСССТССА
4201	GCAGTGCAGT	ATAGGAACCC	TGAGGGGACC	TACAGTATAC	TTTATAGTTC	ΑΤΑΚΑΤΤΑΚΑ
4261	AATTATCCCT	TTATCAGAGT	CTCTCAAGGT	TGGATGTATT	TGAGGTCCAT	AAGAGCAATT
4321	TAGGATTAAC	AGTAGCTGCA	GAAACCATCT	GCAGTGATAT	TCTCATTTTA	AATCCGCGGG
4381	AAAGAAGACA	GCTATAAACT	TGGGACCTGG	GTTTAAGCAT	TTTAAATGCC	AAGTTCACCA
4441	TTTTCTAAAA	CACAACAAAT	ACCCAGTGAG	AGAGGGAGAA	GGGAAGTAAA	$TGCCTCTG\Delta\Delta$
4501	TAAGCAAGTT	AATGTCAGTA	GTTGTACTGT	ATGCATATTG	ATGAACAATA	GAGGAACCAA
4561	TGTCCAATCA	GATGAGCAGG	ATATTTGGCA	ATAACAAGTT	GCCTTTGAGG	ΔΑΔΑΔΤζΔΤΤ
4621	TTCTTGGCAA	GTTCTTTATC	AGCATTACAA	AGCTAAAAGC	TACGCTTATC	ΔͲϹΔϹͲͲΔͲΔ
4681	CTAGCATACC	CTGTTGTGCA	AATGCTGTCT	GTGTTTGCAT	CTGCTATTGT	TGATGCCTGG
4741	TGCATGAATC	AGGACTCCAG	CCCACAAGTT	TTCCCAGAAC	TTTCTTATGG	$CC\Delta TC\Delta TCTT$
4801	TAAGTGTCTG	GTGAACAGTC	ATAGTTTGGT	ACACAAAAGG	GTCAACCTGG	GGGATGGCTA
4861	GGGTTTGACT	CAGTCGTTAC	ATTTCAATAG	AGCAGGAAGG	GGAAATGGTG	GCCTGTAACC
4921	TCAGGGAATT	TTGCCAGTTG	GTCCACCCCA	CTCTCTCTCT	CCTGCTCTGA	GGAAGTGGCA
4981	CAGCCTAGAA	CAGCACCACA	GGTGAGAGAA	ATGCAAACCC	TAACCAGAGA	ΔGCΔGΔCTCT
5041	TTGCCAGTAG	TAATAGTTCA	GGACCACCAC	CAGCTTTTAT	TAAAATTTTT	AATAACACTC
5101	AAGTATTGGC	AGAAAGAAAT	AATCTTGGGT	TAACTATAAC	TAGAATATTG	ACTCTTCCTC
5161	TGTGGAAGAA	TCAGCCAATC	ACATTTGTTT	ACATCAGTTC	CCCTGAAGAA	GAAAAATACA
5221	CTGATGTTGC	AGCAAGACAA	ATTTAAGCTA	GATGTAAATA	ACTTCCTTTA	GCCTGTAATG
5281	CTAGGCTAAT	TACATATTGG	AACTATTTT	TCAGGGAAGA	ATTGTGTAGG	GTTTCAGGGA
5341	AGAATTCTGA	AGAAAATATA	GAGCTGAAAT	GATCTTGCAG	CTCACTGAAA	CTGCAGGGTT
5401	TAGATCCACA	CTGATACTCG	TTCTATTATC	ACTGTAATGA	AGGCTGATGG	AATAAGTAAA
5461	AATGTTTTGT	ATTAGTATGT	TTTTACACTT	ATTTGCAAGG	CATAAATAGG	TTAGGTTTTG
55ZI	ATCTTAATTT	AATTCTAACA	TGTATTGTGC	ACAAGCTGTG	AGCAGTTTTC	AGGAGTTAGG
2281	TATCTGGCCA	TGACTGATTT	TTCAGGAGTT	AATCATCTGG	TAGAAGGGTC	ATACACAATA
5641	GGAAGATGTG	TGTGACAGGT	TGTGATCATT	ACTATAATCA	CACAGAGAGC	TGTAGAATTT
5/01	TAGGCTGGCA	GGGTGGCTCA	CGCCTGTAAT	CCCAGCACTT	TGGGAGGCCA	AGGCAGGCGG
2/61	ATCAAGAGGT	CAGGAGATGG	AGACCATCCT	GGCTAACACG	GTGAAACCCC	GTCTGTACTA
5821	AAAATACAAA	AAAAAAAAA	AGCCAGGCGT	GGTGGTGGGC	GCCTGTAGTC	CCAGCTACTT
2881	GGGAGGCTGA	GGCAGGAGAA	TGGCGTGAAC	CCGGGAGGTG	GAGCTTGCAG	TGAGCCGAGA
5941	TCGCATCACT	GCAATCCAAC	CTGGGCGACA	GAGGGAGACT	CAGTCTCAAA	AAAAAAAAA
6001	AAAAAAAGTC	ATGTTAGATC	CAGAGGGGTA	GCAACTGGGG	CTGGGCTGTC	AGTCAACTCA
6061	GTCAACTCAG	TCAACTCTGC	TCCCCCACAG	GAGATGCCAG	TGATGCATTT	TCATGGCCAA
0121	03 MM 0					
C101	CATTGTCAGT	CAGCATCATT	GAATTACTCC	TGATTATAGA	GACACAGCTG	CAAACGATTC
PIRT	CATTGTCAGT CCCATTAAAT CCCCTCTTCT	CAGCATCATT ATGATGTTTC	TTGCAATGTT	TGGAAGGTAC	TCCTTTTTAG	TAAGGGAAAT

6301	TGCAATATTG	AGGTGGTTAT	ATGGTTTCTC	TTCTCTAATC	TGTTAATATG	GTGATTTAAT
6361	GGTTAGAAAT	TTTCTAATGT	AAATTCCACT	CATATTGCAG	AAATAAACCT	AAACTGAGCA
6421	TGAGGCTATA	TTTTTTTTTT	GCTTCTATAT	TTGGTTGCTA	TACAGTATTA	TGTTTAAGAT
6481	TTGTTCACAT	ATATTTGTGA	ATGGGATTGG	ACTATTTTC	CTTCTTGCCG	ATTTTTATCT
6541	GGTTTTTAAA	TTAAGGATAT	TTTAGACTTA	TGAAATATTT	GGCAAACAAT	CCTTGGCAAG
	TAATTTTTTG					
	TTATTCTTAA					
	TCCAGATTTT					
	ATCTATTTTT					
	TTATTATTTT					
	TAAGTTGGGT					
	AATTTTCCTT					
	CTATTCAATT					
	GACAAATAAA					
	TTGTGGAATG					
	TTGTGGTGAG					
7261	AAGCATATTG	GGATTTTAAG	TAATTTACCT	TTTTATTATT	AACTTATAAC	AAGTAGAACA
7321	GTTAACCTGT	ATGATTCTAC	ATCATTGAAA	TTTATTGACA	TTTGCTTCAT	AGTCTATTAT
7381	ATGGTCTACT	TTTGTTCATG	TTACATCTGT	AGTAGAATTG	GCTAATAGTT	GAGTAAAGTA
7441	CACATATGTC	TATGAAATCA	AGTGTAATCC	AGAGAAAAAG	AGAAATTTAC	TGAATATATT
	GTTCTAGGTG					
7561	ATAATTAATT	CCACTTTACA	CATGAGGAGC	CTGAGGGTTA	AAAAAAAAGC	TAGCTCTACT
	ATTTGTAAAG					
	TAAGCATTTT					
	ACAGACATAC					
	CCACACTGAA					
	CTCTTTACTA					
	CTAAACAAAA					
	TGGAAAAGTC					
	AAGGGAGGCC					
	GTGCTGGAGG					
	TTGCCCAAGT					
	TACAAGCACA					
	AGCTGTCATT					
	TTATACAACT					
	GATGAGAAAA					
	CCACAATGTT					
	AGAGTCTTTA					
	ATTACAGTCC					
	AAGTGAATAT					
	CAGTGGTTTT					
8761	AATCTATATG	CACATCTGTA	TTTTTCTCAA	TTATCGGGTA	GTAAAATATA	ACTTTTCTTC
8821	TGTAATATTT	TTTAACTTTA	ATGAGTGTTC	CTCATAATAG	AAAAGTTTGG	AAACCATTGC
	TATGGGTATA					
8941	GAAGTAATTA	GCACAATTGT	GCAAGTCTGT	GCATCATCAA	CTATACATTC	TGCCTGTTTA
9001	CTCCAAATCC	ACATGAAACT	GATTATACAG	TCAAAGGCGA	GCCCAGTGGA	GAGGCATTTT
9061	TGGAGACTTC	CTGGTACATT	GAGACAGGGT	CGGCCAGTCT	GCGTTAGGGT	CTTGGTCAAA
9121	ACTGCATTTC	TGAAACTAAA	CTCAGATTGC	TTTCTTTTAA	GGGGTCAGAA	CTGATTCAAA
9181	TCTACATTTT	TAAAAGCCTT	AGATGTGGGG	CTTTTCCTAT	TCCCAGTCTC	CGCTATTGGT
9241	CTTTGTGAAT	CCACAGGCAA	TTTGGCCACA	TCCTTGACTC	TCTCTTATAT	TAAGAATTAA
	ACAGCTAAGT					
	AAAATGGAAC					
	TGAATACTTT					
	GAGACCAAAG					
	CGCCTGAATA					
	ACCCTCTGAC					
	GTTTTCCCAG					
	CTTTTTCATC					
	TACCTTTGTC					
	TAATTTTGCC					
	AGCATCTCTG					
9961	CAGGGTGTTT	ACCTTCCCTC	CCCTTCCAGA	TGCTGGATCC	CCAGGGATAG	GAACTCTGCC
	CTTATGTGTC					
	AATTGGTTAA					
	TGTGTCCTTT					
	TCCGAGGATG					
	TTTTGTTGTG					
10321	TTGAAACCAA	ATCTATTCTA	AGTAATTTTT	TATTCCCTTT	TCTCTATGGC	ATTAGACACA

1000						
1038	L CAGCTCTTT	T AAACTACCTT	' TCGTTATCTA	TTAAACAGAC	ATTCAGTAAC	TCTATAGACA
1044	L CTGTCTAGCT	T ATATGAACTT	' AGACAAACTA	ATATCTCTGA	GCTTCAGTTT	CTTAAAATTT
1050	l AAAATGAGG <i>I</i>	A CAATACCATC	: TATGGCCGGG	GATTAAATGC	TATGAGGAAT	GTAAACCAGA
1056	l TGTCAGGTAC	CATCTCTCTA	AAATCCAGAT	AAAATGAATT	AAAAATACTG	GCCGCAAACC
1062	l CTCTCTAAG <i>I</i>	A GTTCTCAAAA	TTCTCAGAGA	GCTTAATTTT	CATGCTCACC	ATAGCACCGA
10681	L TTTTCTTCT <i>F</i>	AATATTTTGT	TTCTACCAAA	ATATTTTGTC	CCAATTTTGC	CTTTTATGGC
10743	l TATTTCTTC#	A TATCCACTTT	CCCAAACTAA	AGAAGCAGCC	CCTTCACCTT	AAACTCCTCC
1080	L TTCAAAGCAA	A CCTAAATACA	. GGTCTGGGTT	TGTATTCCTA	GTGGGATGTT	ACAGAGGTTA
10861	l GTGTGATGC <i>P</i>	A GAGGAGGAGT	CATGCTGTTT	AAATCCATAC	TAGTCCCCAG	AGGCCAGGCT
10921	LGCTTCTGCCA	CCCCTACCC	TCCCGCCACA	GAGCTCTTCA	GCTTCTCACA	77TTCTACTTC
10981	TTCTCTCTCT	ACTTTCATTA	CCTTCTCTCT	ասարարարարարարարարարարարարարարարարարարա	CTTCTCATCT	CCTCACGGGA
11041	GCAGAGAAAA	TTAACTCCTC	TAAGTTTTCT	TAACACAGAG	TCCCTTAATT	ACACACGGGA
11101	ATTGTTTGAG	TTCCTGCCAA	CACTACCTCT	GTACCCTCAC	ACCTCCTATA	MUNCACCOUM
11161	ATCAAAAAA	GATAGCTTTC	TCCTAAAAAC	CCATTTCCAT	CCCTACTAAC	AMAAGGCTT
11221	GCCAAGATAA	GTTTAACCTA	10017777777	TUNTUNTA TUNA	GCCIACIAAG	ATAACTGGAT
11281	GGTACTTATT	CTGTCACCCA	CACACCITIA	CACCCAMCCA	IATTATTATT	ATTAGAGATA
11341	CAAACTCCTC	AGTTCATGCA	AMCCOMMCMCC	CAGGGATGCA	ATAATAGCTC	ACTGCAGCCT
11/01	CAMAGICCIG	MCMCCCCA	ATCUTTUTGU	TTCAGCTCCC	TGAGTAGCTA	GGACTACAGG
11401	TCCCCACCC	TCTGCCCAGC	TACTTTTAAA	AAAATAATTA	GGGATGGGGT	CTTGTTGTAT
11501	. IGCCCAGGCI	CGTCTCAAAC	TTCTGGTTTC	AAGCAATCCT	CCTGCCTTTT	ACCTCCCTAA
11521	. TIGITIGGAGT	TACAGGCATG	AGCCACAGCA	CTCAACCAAG	ATTTAAAAAC	TTTTAAAAGA
11281	AATCACATTA	CTTACTGTTA	TCATCATTAT	GGTTACTACC	AGTGTTAAAA	CAATTGGTAT
11541	TGAAAACACC	ACTACCAGAT	CAAGCTTCAA	ACCAAGATGT	CAAGTAAATA	TTATTGTCAG
11/01	ACCTCTGAGC	CCAAGCCTGC	AGGTATACAC	CCAGATGGCC	TGAAGCAAGT	GAAGAATCAC
11761	AAAAGAACTG	AAAATGGCCG	GTTCCTGCCT	TAACTGATGA	CATTCCACCA	TTGTGATTTG
11821	TTCCTGCCCC	ACCTTGACTG	AGGGATTAAC	CTTGTGAAAT	TCCTTCCCCT	GGCTCAGAAG
11881	CTCCCCGACT	GAGTACCTTG	TGACCCCCAC	CCCTGCCCAC	AAGTGAAAAA	CCCCCTTTGA
11941	CTGTAATTTT	CCACTACCCA	CCCAAATCCT	ATAAAACAGC	CTCACCCCTA	TCTCCCTTCG
12001	CTGACTCTCT	TTTCAGACTC	AACCTGCCTG	CACCTAGGTG	ATTCAAAAGC	TTTATTCCTC
12061	ACACAAAGCC	TGTTTGGTGG	TCTCTTCACA	CAGACCATGT	GACATTTGGT	GCCGTAACTC
12121	AGATCGGGGA	ACCTCCCTTG	GGAGATCAGT	CCCCTGTCAT	CCTGCTCTTT	GCTCCATGAG
12181	AAAGATCCAC	CTATGACCTC	TGGTCCTCAG	ACCAACCAGC	CCAAGGAACA	TCTCACCAAT
12241	TTTAAATTGG	GTAAGTGGCC	TCTTTTTACT	CTCTTCTCCA	GCCTCTCTCA	CTATCCCTCA
12301	ACATCTTTCT	CCTTTCAATC	TTGGCACCAC	GCTTCAATCT	CTCCCTTCCC	TTDDTTTCDC
12361	TTCCTTTCTT	TTTCTGGTAG	AGACAGAGGA	AACGTGTTCT	ATCTGTGAAC	CCAAAACTCC
12421	AGCACTGGTC	ATGGACTTGG	AAAGACAGTC	TTCCCTTGAT	GTTTAATCAC	TGCAGGGATG
12481	CCTGCCTGAT	TATTCACCCA	CATTTCAGAG	CTGTCTGATC	ACTGCAGGGA	CCCCTCCCTC
12541	GATCCTTCAC	CTTAGTGGCA	AGTACCACTT	TGCCTGGGTG	GCDAGCACCA	CCTCTCCTCC
12601	GGGGCAAGCA	CCACCTCTCC	TGGGGGGCAA	GTACCCCCCA	ACCCCTTCTC	TCCATCTCTC
12661	CACCCTCTCT	TCTCTGGGCT	TGCCTCCTTC	ACTATICCCCCA	ACCUMENTAGE	CTCCAIGICIC
12721	CCCTTTTCTC	CCTTAGCCTG	TGTTCTCAAG	AACTTAAAAC	CTCTTCCACC	CACCECECAC
12781	CTAAAACCTA	AATGCCTTAC	TTTTCTCAAG	AACTTAAAAC	CICIICAACI	CAUGICIGAC
12841	AATGGTTCCA	AATAGCCTGA	AAACCCCACT	TTTCAATTTCT	CCAMCCCAATA	CAAACTCAAC
12901	AATTCTTCTC	GTAAAATGGA	CANAGCGCACI	CACCECCEC	CCATCCCACA	AGATCTAAAT
12961	ACGTCGGTCC	CTCCCTAGTC	TCTCTTCCCX	AMCCAACMCA	MCCCAAABAGG	ATTCTTTTAC
13021	CCTCCTCCCT	CTCCCTAGIC	TCIGITCCCA	ATGCAACTCA	TCCCAAATCC	TCCTTCTTTC
13021	TTCTACTCAC	GTCCCCTCAG	TCCCAACCCC	AAGTGTCGCT	GAGTCTTTCC	AATCTTCCTT
131/1	CCCCCACCCT	CCATCTGACC	TCTCCCCTCT	TCCCCAGACT	GCTCCTCCTC	AGGTCGCTCC
13301	TTCTTTCT	GAATCAGGCT	CCAATTCTTC	CTCAGCGTCC	GCTCCTCCAC	CCTATAATCC
13201	TICIAICACC	TCCCCTCCTC	ACACCTGGTC	CAGCTTACAG	TTTCATTCTG	TGACTAGCCC
13201	CCUUDARGO	GCCCAACAAT	TTCCTCTTAA	AGAGGTGGCT	GGAGCTAAAG	GCATAGTCAA
13321	GGTTAATGCT	CCTTTTTCTT	TATCCAACCT	CTCCCATCTC	AGTTAGTATT	TAGGCTTTTT
13301	TTCATCAAAT	ATGAATACCT	AGCCCACTCC	ATGGCTCATT	TGGCAGCAAC	TCCTAGACAT
13441	TTTACAGCCT	TGGACCCAGA	GGGGCCAGAA	GGTCATCTTA	TTCTCAATAT	GCATTTTATT
13501	ACCCAATCCA	CTCCCAACAT	TAGAAAAAGC	TCCAAAAGTT	AGACTCCGGC	CCTCAAACCC
13561	CACAACAGGA	CTTAATTAAC	CTTGCCTTCA	AAGCGTACAA	TAATAGAGTA	GAGGCAGCCA
13621	AGTAGCAACA	TATTTCTGAG	TTGCAATTCC	TTGCCTCCAC	TGTGAGAGAA	ACCCCAGCCA
13681	CATCTCCAGT	ACACAAGAAC	TTCAAAATGC	CTAAGCCACA	GTGGTCAAGC	ATTCCTACAG
13/41	GACCTCCTCC	ATCAGGATCT	TGCTTCAAGT	GCCAGAAATC	TGGCCACTGG	GCCAAGGAAT
13801	GCCCTCAGCC	TGGGATTCCT	CCTAAGCCAT	GTTCCATCTG	TGTGGGACCC	CACTGGAAAT
13861	CGGACTGTCC	AACTTGCCCA	GCACCCACTC	CCAGAGCCCC	TGGAACTCTG	GCCCAAGGCT
13921	CTCTGACTGA	CTCCTTCCCA	GATCTTCTTG	GCTTAGTGGC	TGAAGACTGA	TGCTGCCTGA
13981	TCGCCTCAGA	AGCCTCCTGG	ACCATCACAG	ATGCTTTTGG	TAACTCTTAC	AGTGGAGGGT
14041	AAGTCCGTCC	CCTTCTTAAT	CAATGCAGAG	GCTACCCACT	CCACATTACC	4404000001
14101	GGTCCTGTTT	CCCTTGTCTT	CATAAATGTT	GTGGGTATTG	ATGGCCAGGC	TTOTOTIOMA
14161	CTTAAAACTC	CCCAACTCTG	GTGCCGATTT	ΑΑΑΓΔΑΓΑΤΤΟ	GGCCAGGC	TICIAMACCC
14221	GTTATCCCCA	CCTGCCCAGT	ጥርርርምጥ <u>አ</u> ጥጥ»	CCCTCACACA	TITIMIACA A	AUTHATITA
14281	TCCCTGACTA	TTCCTGGACT	ACAGCCACAT	CHCZHACACA	TIIIMACCAM	CAACCCAAAA
14341	GTGGCAACTC	CTTTGCCACT	TCCTCTCTCTT	TCCCCCTTTCCTG	TTA A CCCA CA	CAACCCAAAA
14401	ACCTCTACTC	CCTCCCTGGC	DDCDDDDDCDC	TCCCCCIHCC	T T MACCOAMM	AAAACCOR
		-310001000	THICKER INTO TO	ACCOLONITA	CIAICCCAIT	AAAACCTAAT

	CACCCTTACC					
14521	CCTGTTATCA	CTTGCCTGTT	ACAACATGTC	CTTTTAAAGC	CTGTAAACTC	TCCTTACAAT
14581	TCCCCCATTT	TACCTGTCCA	AAAACTGGAC	ATGCCTTACA	GGTTAGTTCA	GGATCTGTGC
14641	CTTATCAACC	AAATTGTCTT	GCCTATCCAC	GCCATGGTGC	CAAACCCATA	TACTCTCCTA
14701	TCCTCAATAC	CTCCCTCCAA	AACCCCTCCA	TAACCCTTAT	TCTGTTCTGG	ATCTCAAAAC
14761	ATGCTTTCTT	TACTATTCAT	TTGCACCCTT	CATCCCAGCC	TCTCTTCACT	TTCACTTGGA
14821	CTGACCCTGA	CACCCATCAG	CCTCAGCAAC	TTACCTGGGC	TGTACTGCCG	CAAGGCTTCA
14881	TGGACAGCCC	CCATTACCTC	AGTCAACCCA	AATTTCTTCT	TCATCCATTA	CCTATCCAGG
	CATAGTTCTT					
	AACCCCAGGA					
	TCTTGGTCTG					
	AGGCCACCGT					
	CCTCTATACA					
	AGGCTCTTGG					
	TAGAACTGAT					
	AGGACTGAC					
	CTACAAGGTA					
	TCATTCCAGA					
	TCTGTCTAGT					
	TACAGTGCTG					
	TCAAACCGCC					
	ACTCCAATAC					
	TGTTCCCATT					
	TCACTCACTC					
	ATTTCTCTTT					
	CTGCATATTT					
16021	CAACATAAAA	AAAACTCAAG	GATAGAGCCA	AAAACCTTGC	CAACCAAGCA	AGTAATTATG
16081	CTGAACCCCC	TTGGGCACTC	TAATTAGATG	TCCTGGGTTC	TCCCGATTCT	TAATCCTTTA
16141	ATACCTGTTT	TTCTCCTTCT	CTTATGCAGA	CCTTGTGTCT	TCCATTTAGT	TTCTCAATTC
16201	ATACAAAACC	GTATCCAGGC	CATCACCAAT	CATTCTATAC	GACAAATGTT	TTAAGGGAGG
16261	AGACCACCCC	TCATATTGTC	TTATGCCCAA	TTTCTGCCTC	CAAAGAAAGA	AGTAAAAATG
16321	AAAAGGCAGA	AATGAAATCC	ACAGGCAGAC	AGCCTGATGC	CACACCCTGG	GCCTGGTGGT
16381	TAAGATCAAC	CCCTGACCTA	ATCAGTTATG	TTATCTATAG	ATTACAGACA	TTGTATGGAA
16441	AAGCACTGTG	AAAATCCCTG	TCTTGTTCTG	TTCCTCTAAT	TACCAGTACA	CGCAGCCCCT
	AGTCATGTAC					
	GACCCCCTTA					
	TTTTTGAGAC					
	CAGTGTCTGA					
	AATATCACCC					
	CGCCACCCCT					
	CACCCCCAAA					
	TAATATAAGA					
	TGGCCTGAAG					
	GATGATATTC					
	GAAATTCCTT					
	CCCACAAGTG ACAGCCCCAC					
	GGTGATTCAA					
	CGCGTGATAA					
	TGTATATATC					
	GGAAGTAAAG					
	GTAGGCTGTT					
	AACAGAAGGG					
	AAAGAACTGT					
	ATGTCTAAAG					
17761	TTGCTTCTTT	CTATTCTCAT	TAAATCATTA	GAGCTCAAGC	AATCCTTCTG	CCTCAGCTTC
17821	CCGACTAGCT	AGGACTACAG	GTATGTGCTA	CTATGCCCAG	CTAATTTTTT	AAAAATTAGA
17881	TTTTAATTTG	GTGAACTATT	TCTGTAGGAA	ACTACAATAA	TACAGCCCAG	GCACATTGAT
17941	CTTGGGTGAA	CAAATCAGAA	GGAATGAATA	ATTCTGTGTT	CCTGGGACTC	TGACAATTTC
18001	ATGAACTTGG	TACTCTGAGT	AAAGCATAGG	AGGAGTTATT	TCATAAAATG	TGGAGCACAA
	TCATGTGACA					
	AACAACTGGC					
		AGGCCCTTCC				
	TOCCIGICO					
			CTGAGTTCCT	ATTGGAACAC	AAGTGAAAGA	CTTCCTGGCT
	GTGCAGTGAA	AATCTGAGGG				
18301	GTGCAGTGAA TCTAATCTCA	AATCTGAGGG GGATAAGGAC	TCAGAGCTCC	ATCTGTTCCA	GCCTTAGGAT	AAGAACCAGA
18301 18361	GTGCAGTGAA TCTAATCTCA ATCTTACACC	AATCTGAGGG GGATAAGGAC ATGAAAGCAT	TCAGAGCTCC GAAAGGTAAG	ATCTGTTCCA ATTTGAGTGA	GCCTTAGGAT GGAAAAAAAA	AAGAACCAGA AAAAAAAGTC
18301 18361 18421	GTGCAGTGAA TCTAATCTCA	AATCTGAGGG GGATAAGGAC ATGAAAGCAT ATTCAGTTCA	TCAGAGCTCC GAAAGGTAAG CAAAGCAGTT	ATCTGTTCCA ATTTGAGTGA TCATACTTAA	GCCTTAGGAT GGAAAAAAA GGTACCATCA	AAGAACCAGA AAAAAAAGTC CAATAACCCT

1854	1 AGGTTAAGA	C CAAGGTTTCT	GGAGAATTTT	ATATTATGA	4	A TGGGATTACT
1860	1 ATTATGTAA	T TCCTAAGATO	CATATAGGAAT	CCTAGAGCT	Г СААТАТАСА	ላ ርጥጥጥልጥጥጥጥ
1900	I AAATCTATA	T ACATCATAA1	' TACAAGGAG1	' AGTGTCCAT'	P TGGGTTCCT	P CCCCCTCATC
18/2	I TGTTAGTGG	А АТАААСАТТІ	`TTGTCAGGG1	TGCCATGTGT	Γ GTCTGTGC Δ	CTCTCCACTC
T0/8	I TACACCTCC	A GGGGATGTAC	CCTAAACCAC	: ΑΤΚΑΑΤΚΤΚΙ	\	~ ~ A A ~ A TO TO TO A A
1884	I AGTGTACTA	I' AGGGAGAAT(TTTTGCAACA	A GCTTTTGCTZ	Α ΤΑΑΤΑΓΑΓΑΙ	ጥርጥር እር አጥርጥ
1090	I CTTTGAGAA	A GAAAAGTGTA	ATCATTACCA	\ AAAAATTAT1	ι απαδηδοπαί	የ ርጥርር እእአጥጥጥ
1896	I GTATGAAAT	C TATATTGGCC	ATGGGACAAG	GAGGTATTTC	CACCTACCTT	CTCANACCCC
1902.	I TCTATTCTC	I CATAAGAATT	' CAGCTGTTGA	CATTAGGTG	TATCTCCCC	CCTCATCACA
1908.	I TGCCATAGA	3 AAAGAGGGT1	' TGCTGAAACT	' TATATCAGC	GTGCACTGTZ	TCCTCTTCCT
1914.	L GATTTATTT	3 AACATTCATT	' TATTGAGTGT	' CAAGTAATGO	: ACTAGATAC1	CCACCCATCT
1920.	I GACACAAAC	I CTGCCCTGAA	. GGAGCATGTA	ATCTCACTGG	CCACAAAAAC	ለ አአርአጥአጥርአ
1926.	I TAATTICAA	A ATAACAAACT	' AGGCAAACTA	GTTAACACTT	' AAAAACCACC	ב כייייייי איייייייייי
1932.	I ATGCAAAAT	I GCATGTTACA	GGGTAACCTT	' TCAGTAAGAZ	GCCAGGAAGA	CCACCTCATC
1938.	L ATGGGTTGG	A TTAGTAAAGG	ACTAGTTATA	AAAGAAGTGC	$TGGGGGTTG\DeltaG$	CCACCCCTCA
1944.	L GATGAAAT"!"	l' AAAGAATATG	TAGAATCTAG	GTAAGTGGAT	' AAAACCTCTC	GCCCCACCCC
1950.	L AAAGGAGAG	: ATTTCATTGT	GAATCAAGGA	ATTTCTCCAC	' ርጥርጥጥጥጥልል ረ	' ጥርጥጥርርአጥአም
1900.	L GACATCAAA(- AGATGTCACT	TGCAGCTAGC	ATTTCAGTGA	Γ	ርጥ አልጥ አለጥ አጥ
19621	L CGTGATAAAA	A GAAACATTGA	CTATAAGAAA	TAGGAATGGG	TCTCATAAAA	GGAAACAGCA
10741	L AAACCCCCAA	ACTAAAAAAC	AGCGCAGGCT	ATTTCTCTCT	TCTCTCCTTT	TGCTTGGCAC
10001	CCCACCCTCA	CTAGGTGTGG	AAGTCAGCCA	ACTGAAAAAG	AGAGGTGGCT	GAAGAAGGTG
10061	A A TIA CCA CTIC	AGCCAGTTAA	ATAGGATGGT	CCAATTCACA	GACGGCGAGG	CTACAGTGCA
19001	CACCCTACAC	TTTCAACTTG	AGCAGGACCC	CATTACTTCA	CTGGAGTTAG	AAAGAAAGGA
19921	ACA A A TURNOR A	TTTTTGAACT	TTCTATAAGA	GTGTACCTCC	ACAGTATACA	GAAGACGACG
20041	. 1GAAA111GA	TCTGCAAGAA	AACTGAGTCC	ATATTCACAT	ATGTATCAAA	TTTGCACTTC
20111	ATTIAGAAGI	GTCTGTCATC	AAGTACAGCA	CTGAATTGAA	ACTGAAAACA	AGAGTCAAGA
20161		TCAGCCATCT	TTATATTCCA	CATGAATCCT	TTCCCTTTAT	GGTCTTATTT
20221	GGGATAAATG	AGAAAAGACA AGGGGCGAAA	TCCAACCTCAC	ACCARCEC	ACC'I'GTGGGC	TGGGGGTTGA
20281	AGATGCACTO	AAGGAAACAC	ACTITICATION	AGGAACTGTT	GGTCAGGTAG	AAATCTTCCC
20341	TTCATGGAAG	GATTTAAAGG	ACTICATETT	TGACGTAGGA	GGTGCCACCA	CACAAAACGT
20401	AGGGCGATTT	AATATGGGTC	ATTCATACTC	1111AGIATT	CCAAGAATTT	TCTTTCACCA
20461	AAATTGCAAA	ACTTGGAGTG	TTACTACTA	AAAGAAAAA ACCTAAAAAAA	MANAGATAAT	AAGAGTTTAA
20521	AGCAAGGAAA	TGCTTTCAGC	TGGAAATCTC	AGGIAAAIAI	CCACCCUUUN	TGAGAAGAGG
20581	AAGATGAACA	AATGTAAGCA	AACCCTAGTA	GCAGCAGGGG	TCACATTTA	ATTOTAL
20641	CACTCAGAGA	TGGTGTTAAA	ATGCAGACTC	TGATTCACTA	CCTCTCACTC	CACCCECACA
20701	TTCTGCACCC	CTAACAAGCT	CTTTAGTGAT	GCTTATGCCA	CTCCCCCACA	CACCCCACMM
20761	GGAGAAATTT	TTGTGGTGCA	TACGGTCTTT	GTCTCCAGAT	CIGGCGCACA	TCAACCCACII
20021	TGTAGATTGA	TTTTTTTAAAT	TTATGTTTAT	ΤΤΤΆΔΤΤΤΆΔ	ጥጥጥል ልጥጥጥል እ	መመመ አመመመ አመመ
Z0881	TATTTATTT	TGAGATGGAG	TCTCACTCTG	TTGCCCACTC	CGCACTCCAC	TCCCACCCAC
20941	GCAGCTCATG	CAACCACGGC	CTCCTGGGTT	CAAGCGATTC	TTCCCCCTCD	ልርጥጥርርጥር እር
21001	TAGCTGGGAA	TACAGGCACG	TGCCAGCACA	CCCAGCTAAT	ጥጥጥርጥልጥጥጥ	中中人の中人の人人へ 人
Z1001	TGGGGTTTCA	CCACATTGGC	CAAGCTAATC	TCAAACTCCT	CACCTCATCA	TOTATOTOTO
21171	ACGGCCTCCG	AAAGTGCTGG	GATTACAGGC	GTGAGCCACC	CACCCCACCT	CTACATTCAT
21191	TTTGAGCAGT	GGAAAGTCAA	GGAATTAGAA	$GGC\Delta TGCTT\Delta$	$\Lambda \Lambda \Psi C C \Lambda \Lambda \Lambda C \Psi$	CAAAMMCCAC
21241	AAAATTTAAA	CTCATGAAAT	AGTGGTGGTT	ΑΠΑΑΛΟΤΟΟΤ	ር አጥ አ አ አጥጥ አጥ	A TO COTO CO A TO
21301	WINATITAMI	GAGATGGTAA	CACATTTAGT	ΤΤΑΑΑΚΑΑΑΤ	$\Delta \Delta C T C \Delta C \Delta C T$	m_{m_1, m_2, m_3}
21301	GACACAACTG	TCTTATTCTT	GGAAAGGACA	AGGAGAGAAT	CAAATATCCT	Δ TCTCTTC Λ C
21421	AGCACCTTTC	AAAGGGAGAA	CCAGATTCTG	AGGAGCTGGT	$CTC\DeltaTC\DeltaTC\Delta$	A CTCTCA CCC
Z1481	TAAACCACAG	TTCAGCAGCT	GCAAATGTGC	TTGCCAAAAT	ΔCΔCΔCΔΔλλ	$\Lambda \Lambda \Lambda \Psi C \Psi \Psi \Psi C \Psi$
21341	GAAAACAAAA	TTTCACATAT	GCCCTCCTCT	GAGGTTGGCA	ጥሮልምልምርጥጥሮ	CTCTCTATCT
Z T Ø O T	TGGGTGTAGC	TTCTATCCTG	CCAGAATTTA	GACAGTAGAA	ΑССΑΔΑΤΌΛΟ	CTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
21001	GAGTCATTT	GCAGAAGAGT	CAAAATAACC	CAGCAAGAAA	TCDDDCCDCD	አአጥርርርርርአአር
21/21	GAGTCATTCA	TTCACCATTC	AAAAGCTAAT	AGAAATGAAC	ΑΓΔΔΔΓΠΔΓΠ	<u>ለጥር እ እ እ አጥጥር</u>
21/01	ACCCAAGAAC MACCOMMEGAC	TTAAAAAAA	AAAAAAAGGC	TCATGGTGTT	TAGTGTGATA	GTATTCATTT
21041	ACACAARGGR	TTGTTCTAAA	AACACACCAT	ACTTCTACCC	CACCCTTCCT	CAGTGCCGTC
21301	CUMCCOLOR	TTCAGTGTGA	AAAAAAAAAC	CACGTTACTG	GAAAAGGAGG	GTGCCTGGGA
7130T	CTTGCCACTC	TAAGCTGGTA	GTCAAGGGTC	TTGAGTTCTA	AAAGCATACG	CCTTNNCNCC
22021	TATTTCCTG	GATCCAAATG	AGTATGGATC	TCAGCATTGC	CATTTATTGT	GACCTCAGGC
22111	CCACACACT	CTCTGTGCCT	GTTTCTTTAT	CAGTAATGAA	GATGTTCATA	GACCCTTCTC
22141	CCACAGACTT	AAAGGCATAT	TTCATGATTT	AAGACATGTA	ΔΔϹϹΔͲͲϹΔͲ	$\Delta \Delta C \Delta C T \Delta T \Delta C$
22201	CAACCCCTAT	TAATATTTGA	TAAAGGTTTA	TGATTATTGT	AACTAACTCT	GTCACTTGCT
22201	CCACCAACAM	AGAAAACTTA	CTTAATTAGT	TCAACTACAA	AAAGAGTTTG	AATGTGATAT
22321	TCDDTDDDD	CATATTCAGA	CCTAGAATTC	TGTGATTCTT	ATGAATTAAT	ACAGCCTTGG
22301	CDDCCDTTCD	AGAGCTGGGC	MAATAATTCT	TCTTTGCTAG	GCCTTTCTAG	ACCATCTGGT
22501	TCCTCAATAA	AGACTTATGT	TWIIGGGGCC	AGCCTTCCTT	TCCAACTTCA	ACTCCACAAC
22561	TAGTCTCACT	GCCATGGGCT	CAAGAAAGTT TCCTTA CA CA	ADDROCTOR	GCCCCTGAAA	AATGCTTTCA
		ACCATACCAC	IGCI TACACA	ATTTCCTTCC	TACAGACTGC	CTTCCTTTCC

22621	. TGCTTTTCTC	CATATACCTA	AATCCTATCT	ATTCTTCATA	AGCAACCTTC	TTTATAACAT
22681	. TTTCTATAAC	CACCAAGCCA	AATGACCTTT	TCCTTCTTAA	ATATAGCACC	CATTGGCCAT
22741	. TACCATGCTC	TGCCTTGTAT	TTTTCTGATT	TTTTTCTTTC	TATATTCCTG	TCTTAACTCC
22801	. CCAGCTAGGT	AATAATTTTC	CTGAAATCAG	GGACCAGGCT	GACTCCTCTT	GCTGTCTCAA
22861	. GAAAGCTTAG	CAGTTTCCAA	CACAAAAATG	TTCAATAAAC	AACTATTAAT	TGACTGATTA
22921	. ТААААААТСА	GTGAACCATT	AAACTTAATA	TAGCAATTTG	CTTAGCATGG	TAATTAGCTT
22981	. TTTGCTAATA	TTCTTCCAGC	CAGTCTCTCC	TCCTGTGCCT	CAAGGACATC	TTAAAAAAAA
23041	AAAATCTAGT	TGATCTGCTT	CCATCTAGTG	GCAATTAAAA	CAGGTGGTTC	CGGTAGCCAG
23101	. AAAACAGCTC	TGGGTAGATT	GTGCCAGAAA	ATACTTTCAC	TCAGTAGGTG	CGAGTTTGAA
23161	AGAAATCTTC	ACATCTGTGG	GTTTCCTGCC	ACAGACATAG	GGAGACCAGC	CCAGAGAAAG
23221	AAGCCTTTCC	TCACTAGACT	CCATTTGCAC	TAGTAAAGAG	AAGACAGAGT	AATTAAAAAG
23281	AATAAAAAGA	ACCTCCACTG	ATCGTACATC	CTCATCCAGT	TACCCCTGCC	CCACTTCTCC
23341	TTCACAGCCA	AACATTTTAA	AAGAGATGAC	TGCTTGTTCT	GTCTCTACTT	TCTCATCCTC
23401	AGTAATGCTC	AATGCTTGGC	CGTCTGACCT	CTGTCTTGAT	GTCTGCACTG	CAAATAGTCT
23461	CCCCACTGAC	ACCCTTGTTG	CATCCAGGGG	ATACTTACTG	GTTCTCTTGG	CAATGTTTGA
23521	AACCGTTCCC	CTTTCTTTGT	TTCCTTGGCA	TTCATTACCC	CACACTCTTT	CTCCTCTTCC
23381	TTCTCCCTGC	CTGGCAACAT	CTTTTCATTT	CTCTTTCCCT	TAGGTGACTT	ATTAGATAAT
23701	COMPONE	TGGCTCCCAT	ACTCTCTCCC	AGGTCCTCTT	CCATTCTTAA	AGCACTCACA
23701	CCCTCCCTGG	ATGATAGTAC	CCACTCCTGA	GATGGCAGTT	ACCTCCTGAA	ATGTGAGGGA
23/01	CAAMCAMCMC	CTTCTCCTGC	CATAGCCTCT	GTGCTTTGGA	TAGGTCCAAT	GAGCCACAGT
23021	AACCTCTCAT	CATACACCCA	AAGCTCAGTA	CAAAACTGAA	CCCATGATCT	TTACCTCCAA
23001	CCACCTCACA	TCTTTTATGT	TUCCTTUTCA	GAAGTAAACA	GGACTACCAT	CCGCCAGTTT
24001	ATTCACTTAA	AAGATGATAA TATCACCTCC	TITGATTUTT	CTCTCTCACT	TTTAGCCAAT	TAACAGACAC
24061	CAGGCGCCAT	CGGTTTTAAT	CTAATACTC	CAACCCATT	CTTACTACTA	GTTCCCTAGA
24121	CCAGGCTCAC	CTGTCTCCCA	CACTTCCCAT	ACTICCTO	CAAAACAAGT	CTCTTTGAAT
24181	CAGAGGTAAG	GCTACTCACT	CHCTTGCCAT	CTTTTACTCAT	AGGGTGACCT	TATAAGATGC
24241	AAAGCCCATA	TCACATGGCT	TATACATTAC	TTTTAGIGAL	CCCMMCMCCC	ACCTCAAGAT
24301	TCCCCACTTT	TTCCTTTGCA	TTCTAACCA	TECCCCATAC	TAACTTTCTGG1	AUTCCTATTT
24361	TGGTTGCCCA	AACCAGCATC	CAATCCCTTC	AGAAATCATC	TENEGITIGIG	TCTACCATTE
24421	TAAAGGAAGC	TCAGTTGTCC	AGCTGGGTAC	TCAATATCATC	ACCANACTCC	TCTAGCATT
24481	GTTTATTTTA	CTTAAACTCT	CCTTCCTAAA	ATTCCAGAGC	ACCRARGICC	ACCCUACADA
24541	CTGAGAAATA	TTTTTCCATC	TTCATTTCTG	CCAGGTGGGC	CATCAACTAA	CACATCTCTC
24601	CATCTCCTCC	CACTGTGCTA	TTTCTCCAGT	AGAAGAAATT	TGAGCTTCAA	CACAIGICIG
24661	AAAAATACTT	GCCTCCTTGG	GGAAGCTGTA	GGTAGAATTC	ATGCTCCCTA	TCTTTCCCAC
24721	ATTTCTGAAG	GACAATGCCT	GTTAGAGCAA	TTGAATGCAA	ATAGTCAATT	GAATAAGCAT
24781	TTATTCATTT	CTCAATAAGT	GCTTGTTCAA	TTGAATATTT	СТТАВАТАВТ	ΑΤΑΤΤΤΑΔΟΛΙ
24841	ACAAGAAGAA	CACACCACAA	TGTTTTTAAC	CCTCAGAAAA	AATTCTGAGG	TAATCAGAAA
24901	AATCTCCCTT	TACATAAACT	GCCCTTTTCT	AATAGGGATT	ACTTGTTCGT	TCATTCATTC
24961	ATTCAGCTCC	ACTAGCACCA	AAAAGCACAG	CTCTGAAAGG	AAGCTAGTAG	ATTTATCACC
25021	TTATCTGGTC	ATTTGGATGA	GGACCCCAGG	TAAATAAACT	ACTATGGGGT	TAATGTGTCT
25081	AGCTAGAGCA	GGAAGTAACT	TAAGGAAGTA	GAGAATGAAT	CAGCAGATGT	GGAAACTCCT
25141	CGCCACTAAT	AAAACTTACC	TTCTCTTGGA	TTTCTTGCCT	GAAAATAGAA	AATAGAGAAA
25201	AGGCATTAGC	AAAAATTAGA	CAATTTAAAG	TTTTTCAAGT	AAGGGAGAAG	GAAGACTCCC
25261	ACTCTCAAAA	CTGTCTTTTG	AAGTATATTA	GGTATTTGTT	AGGTGGACCC	TATCTGTGTC
25321	AAAGGAGATT	TGAGGAACTG	GCTTAATAAA	CAGTGGTAGA	CACTAATACA	GAACAGACAT
25381	GTTGATGCAG	ATGCCTCCTG	AGGTTCCATT	CCATTCTCCG	TGCTACTCAA	GAAGACAGAA
25441	TTGCTAAATT	GCCTGGTGGC	AAGACCCAAT	ATGTCCATTC	AAGTGTTTAT	CCCTTCCCAA
25501	TCTGCCATCT	CATCCTACCT	GCAGATTCTT	CCCTTGAGGG	ACAGCTGCTA	ATACTGTAAA
25561	ACTATGTGCC	ATTACAGCTC	ACAGCATCAT	CTCTATGAGA	ATCCACAAGA	GAATTTCACT
25621	TTGGTCTTGT	TGGTAGGAAT	TGTGCAGCCT	CATCTGAGTA	ACTAATGTGT	TTTTATCTTA
25681	CAAACACAAG	GAATATCACA	TGGTTCTCCT	TTGACTGGCT	GTAAGGAAAC	TCAGAGCTAG
25/41	ATCTGAGACC	CTCTCCTACC	AAGTATATAA	AACTTTGTGA	CATACATTTT	TGTGCCATAA
25801	CTTCAACCTT	GGTTCCAAAT	GATTTTTGTA	CCCTAAGTTT	AAATTTGGCT	TTCTTTTTT
25861	TTTTTTTTTTTA	CTCAATAAAA	CATCAAGCTC	ATTTATTATT	GCGAAGAGCG	AAACAACAAA
25921	GCTTCCACAG	CGTGGAAGGG	GACCCGAGTG	GGTTGCCCAA	ATTGGCTTCT	TTTTCTTACT
25981	TTTTAATTAA	TTTTAATTTG	CTATACTGAA	CACATTTTGT	ACTGTTCTCA	CATTCTTTTT
26101	GAAAAAAGCA	GAATATAAAT	AAGTAGATAA	CTTAAAAAA	ACTCTTTGAG	CAGAAAGAAT
20101	CATTTGGGAG	GCAATATATT	TCAGTGGCTG	TAAAGTGGCA	TTCTAGAATC	ATCCTACCCA
26221	GGTGAAAGCC	CTATTTTGCC	ACCTGTAGTG	TAGTGTGTAT	TTGAACAGCT	ACTTTCTTTT
20221	CTAAACTACA	ATTTCTTCAT	CTGTTAAAGA	GGCATAATAA	TTGTATCATC	CTCATTGGGT
7078T	I GATAAAA'I'A	AAATATTTCC	AAGTATTTAG	TTCAGGTCCT	AGCACGTAGA	CAGTGTTGCA
26401	TACTGTTTT	AATCCTTTAA	AGTATTAAAG	ACTACTATTT	GAAATCTTTT	CTTCTAAAAT
26461	ATTICAGCCTGCT	GATGACCAAG	TGCACTTGAG	CAGGGGGAAT	CAAATCTGAA	TTAATTTCAG
20401 26521	CACTAACAAC	GCTTCACATA	AATATTTTTT	TTAGGGATGA	TGAACCTAAC	AGCAATAGAT
26501	ATCTCTTCTC	CTGTTCCTAC	TGAGAGAGTT	TCATTTTGAA	GAAAAAGGAA	CTAAGGGGGC
26641	CNACCCACCA	TTTCATGCCC	TGGTCTAACC	CTGTGTGTTG	GTTCTGGTGG	GAAATTCTTC
20041	CAACCGAGGA	AAAAACCAGT	LCACAAATCT	GAAGACCAGT	GATTTTAGAA	GATGTATCTG

	GACTGGAGTC					
	AAAACATCAT					
26821	GAAAATGATA	ATGCCTGGTG	CACAAAATGT	GTCTAGATGA	GCCCATGCAC	AAGGACACAT
26881	GTTTCTGGAA	CTGTTCCTTA	TTCCTTTCCT	AAAAGAAAGG	AGGGAAAGTC	TCCATACTAA
26941	GACTACTAGG	GCAGGGGACA	AAGTGCTAGA	GTCAGAAGAT	TCATCTGAGG	ACAGAAGAAT
	AGGGGTGAAG					
	TTTTCTAACT					
27121	GTGTATATAT	ATACATATAC	ACACACACAM	ACACACACAC	ACACACCEAA	ACACACACAM
	AGAGATTTAT					
	ATTTAGCCTG					
	ATGTTTTAAA					
	GTGAAAATGG					
	GGGCCTCACT					
27481	CTGGGTTCAA	GTGATCCTCC	CACCTCAGTC	TCCTGGGTAG	CTGGGACTAC	ATGTGCATGC
	TACCATGCCT					
27601	GCTGGTCTTG	AACTCGTGGG	CTCAAGTAAT	CCTCCTGCCT	CAGCCTCCAA	AAGTGCTGGG
27661	ATTAGAGGTG	ACAGCCAAGG	TGCCTGGCCC	ACAGATGAAG	ACTATTTAAT	GTTATCTTAA
	AGATACCCTA					
	CATAACTGTA					
27841	CACAGCAGTT	TTCAAGTTAT	CGGTTTGAGA	TCTTGTACAG	AAATGACTCC	AAGGTAAAA
27901	ATTTAAAAAC	AACCCCTCTA	ATTTTTTTTAC	ССТТССТТАТ	AAAACAGCCT	TAGCCAGCTA
	ACCCCTCACT					
	AAAGATTTTA					
20021	TCCTTAAAAT	TATTT ACACA	ATAMATAGCT	TOCTIATIAA	CCCACTCTCT	AGCCCCAAAG
20141	CCMCMMCMCM	A TO COMO A CT	MINGCCACCI	TATCCCAGGG	GGCAGTGTGT	AATAACCCAC
20141	CCTGTTCTCT	ATCCGTCAGT	TCTGCCATCA	TCGCCCAAGG	TAGGAAGAAA	GACAGGACAA
20201	CCGGGGTCAA	GATTTGAAGT	CTCAATGGAA	AGAATAATCA	GTGGTTGGAG	AAAACTGTCA
	TTCTTCTTTT					
	ACTGTATAAT					
	AGAGACATTT					
28441	TCAACAATCC	CCACCCCCT	CACACACTTT	GTCTTTCTGG	ATTGGTTAGA	AAACTTACCT
28501	AGCGCCCACT	ATTCTCAAAT	TTAAATGAAA	GATAAGATCA	GAGTGGCACG	CAATTAGGGA
28561	CTGATAAATA	ATATTTTTGT	AATTGCCAGT	GTAAATGGAC	AGGGGGCAAC	CTTTACATAC
28621	CATATTCAGT	GAACAGAATA	CGTACTAACT	AATTTGATGG	AAGGAAAATT	AAAATGACAA
28681	TCAACTGAGC	CCACAGAAAG	GCAACACAGA	GCAGTTGGTT	AGCAATTGTT	TCGAGATCAT
28741	CCCTGAACTT	GAAACAGGTA	TATCTTTTTT	TTTTTTTTTT	TTGAGACAGA	GTCTCACTCT
. 28801	GTCACCAGGC	TGGAGTGCAA	TGGTGCGGTC	TCAGCTCACT	GCAACCTCCG	CCTCCCGGGT
28861	TCAAGTGATT	CTTCTGTCTC	AGCCTCCCGA	GTAGCTGGGA	TTACAGGTGC	CCGCCACCAC
28921	GCCTGGCTAA	TTTTTGTATT	TTTAGTAGAG	ACAGGGTTTC	ACCATGTTGG	CCAGGCTGGT
28981	CTTGAACTGC	TGAGCTCATG	ATCCGCCCGC	CTCGGCCTCC	CAAAGTGCTG	GGATTACAGG
29041	CATGAGCCAC	CACACCTGGC	CAAAACAGGT	ATATCTTAAA	AGCTGCCCAA	TGTCCATGAA
29101	TGTTACAGCC	TTGAATGGTT	CTTCCAGGTG	AGTTTGGCCA	AATGTGGCAC	CATACACCCA
29161	AGGCCTGCTG	CAGGCTAGTG	GGTTGCTCAC	ACTTTAAAGC	TGAGACACAC	TCATGCCTTA
29221	AGGTAAAGGG	AGTGATAATC	TGGGCAGCAG	ATGTTAACTT	CTCAAGGCAG	TCCTCCTTCT
29281	CTTTTCCTCT	CCAGTGACGG	ATGGTTGGAA	AGCATATATG	GTGCATTTGG	TTAGAGCTGT
29341	GGCCTTGGTG	AATAGATACT	TGGGAGAATA	CATCCCAATT	TCTCCCAGG	TTAGACCIGI
29401					GTATTTGGGA	
	GAAACCTTAG					
20521	ATGTAGGCTC	TOURCALIAG	CACAMACHCH	CMCAMMMMMM	GIAGCAIIGA	MAICCAAGGC
29521	CCAGGCGTGG	TINGROUNCA	CACATAGIGI	OTCATITIE.	CACACATTAAT	TAMOMOCAGO
20041	ACGAGGTCAG	GAGATCGAGA	CCACTCTGGC	TAACACAGTG	AAACCCCGTG	TCTACTAAAA
20761	ATACAAAAA	TIAGCTGGGC	ATGGTGGCAC	GCTCCTGTAG	TCCCAGCTAC	TTGGGAGGCT
29/61	GAGGTGGGAG	AATAGCTTGA	ACCCAGAAGG	CGGAGGTTGC	AGTGAGCTGA	AATTGCACCA
29821	CTGCACTCTA	GCCTGGTGAC	AGAGTGAGGC	TCTGTCTCAA	AAAAAAAAA	GTATTAAAGA
29881	ATTACATAAG	AGCAAAGAAC	CATTAGAATA	TCTCACTTAG	TTGTTATCAG	CCTAGCAAGC
29941	TGCCTTGAAG	GTAATAGACA	TTTTTAAAAG	TTTATCAGAT	GAAAAGCGAA	AATCAGCCAA
30001	CCTGTTTTAA	TGAAGGTGTG	TCCTGGGCTG	ATTTACATGT	CTCCAGGGAC	TGATGGCTCT
30061	AGAATGTAAA	GCTTGGCATC	CTGCTTGTGT	TGAATCTATC	ACATTTAATT	TCCTGTGGGT
30121	TTCTTTTTT	TTTCTTTTTC	ACTTTAAAGT	TGTGTTCTTT	TCATGTGAAG	TTAAACTCAC
30181	ATACCTTTTT	TTAATCTCCT	TGCCAGCCAA	ATGATAAATG	CCAACCCAGA	GAATGCAGTA
30241	ACCATGACTG	CCACTGGAAT	GAAGAGGGG	TTATAATCAC	CCTCCTTAAT	CATTGAGAAA
30301	CTTTTGTCCA	ATTCTGAAAG	AGAAATCAGT	AAGGCACATA	GCATGAGACC	ACCAGCATTA
30361	TTTCCTTAGT	CTATCTCATG	ATATTTGACT	TTTTTCCTCC	TTACATCTCC	CAGTAGTAGC
30421	CCATTTGATG	CCATTTGACA	GATGAGGAAA	CTGGCATGGG	AAGGCCCCTG	ATGAGTCTAC
30481	AGCATAGGCA	AAGACTGGAC	CAGCCTTGCT	AGTCTAATGC	CTACAGAATC	TCAATGCCCA
30541	GATTTGTGGT	TCATAGAGTT	CCTGAAAATG	CACCTAAAAA	TGTTGGCAAG	AATGGTCATC
30601	GTTGTATTTA	GCTCCATGGA	CTTCTTCAAT	CACTCCAACT	CTCDDDCAAG	CACAACACCT
30661	AAAAGCCTAA	TACAACTTCA	CCAAAAATAA	DACCCAATCA	TCTCA ACTCA	ΔηΔΑΤΤΟΛΟΟΙ
30721	AGTCAAAGGA	ΑΑΨΟΑΨΦΑΑΨ	CCddddd by Cda	TAAACCACTO	CTCCAAAAAA	ADCCACTUCA
	JIIIIOON	JIII IFFI	COLLINGIA	TIME SOCIETI	OTCOMMAN	. I . CONCITOR

30781	TTTTTACATG	CCAAGGACCT	GCACTAATTT	CTTTCCAATG	CAGTAGTTAC	CACTTCCCTC
30841	TACTTCCTTC	ACGAATAAGT	AAAAGGGCAT	GTTTAGAGAT	ACTCTTGTAA	GTGTAAACTA
		GGAGCCTCTA				
		AAGGAATCTA				
		TACTTTGATG				
31081	GATTGAGAGA	AGGCTCAAGT	TCCCAGGAGC	TCCAGACAGA	AGGTACCTGT	TGGCTTGATG
31141	ΔΔΩΔΤΩΔΩΩΔ	GGAAATGAAC	ACTACCTACC	CCTTAAACCC	A A A T CT CT CT	CATACCCCTA
		CTCTGCTAAA				
31261	GCCCTGGGCA	CGCAGCACAC	AGAGATCAGC	ATTTCTGACA	GCTTCTGTAG	ATCCTACCAT
31321	TTAAAGACTT	TTGTCATCCA	TGCAGATAGT	CTCAGGAGCA	CACACAGGTA	$CCT\DeltaTTCTTT$
31301	CACAMCCMAC	CTTAACATGC	A MMMCCMMMA	CCACCMAMMC	CONCCONCE	momon comec
21201	CACATGCTAG	CITAACATGC	ATTIGUTTA	GCACCTATTG	CCAGGCACTG	TGTCAGGTGG
31441	AGGGTATACA	AAGATGAACA	AGACATGATT	CTTCTCATAT	ACAGATAGAT	TTTGGAGGCA
31501	TTAGCTTAGT	GATGATTCAG	GAGTATCCAT	TATTTGGGGA	AGTAGGTGGT	CATTAGTGAC
		CATTTCAATG				
31621	GGTAAAAAGT	AAATCAGTGA	GTTCAGATTT	TAGGAGTTAA	GATGGCAAGA	GGTGAGAACA
31681	AAAAAAGGAA	ATGATTGTCA	TTAAAGGAGG	AGGAAAGACC	AGCCAAAGAT	TTTACAGTGA
31741	GTTAAGCATA	CAAATTTATT	TCTAGGCCAC	ATATTCTTAG	CAAAACAACA	TGTAAATGTT
		TTTCCTCATA				
		CTTACTCACT				
		TTTTCTTCTT				
31981	GCAGAGGTAA	AGCTGAAGCT	GGCCAGGGGA	TGGCTACAGT	TCATGATCCC	CAAATCTGGT
32041	CCTCATACAC	GCTCACACTG	AATCACTTCA	מאממממממ	ממגמווו ווויט בו	7776767777
22111	CACHARAGAG	GCICACACIG	ARICACTICA	AIGAAAAAGA	AAAAAAAA	AAAGACAAAA
		GAGTAGAGAC				
32161	TACATTACTT	GTGATATTGC	TTCCAGGCTT	TATTTTCTTG	AGAATGATGG	TGGGTGGTGA
32221	ATGAGAGATG	AAGGCAAGGA	AGCATTGAAA	GCTGTGGGGA	GAGGAGTAGC	TACTCCAGGC
		GCTAAGGTGA				
		CTCTTATGGG				
32401	TCTACCCAAG	CATTTTGAAA	AACATCCCAA	TTCACTGAAG	CAAGTCCAAC	TTCCGTAAAT
32461	TCCAGTAGGT	GGGTTGACAG	ΤΤΤΑΑΤΑΤΤΤ	TCAATAAGGG	ΔΨΨΨΨΩΔΨΔΩ	$C\Delta CTTCT\Delta\Delta C$
32521	አአጥጥአአአራጥአ	CTTAAACTAA	TCCATCACCA	CCAMACMMCM	ACANAACHIIA	7.CC7777CMM
20501	AATTAACTA	CITAAACTAA	IGCAICAGGA	GCATACTIGI	AGAAAAGTTA	ACCAAAACTT
		GATGACATTG				
32641	AAAAAAAAA	AAAAACCTAC	CTTATTTCAA	ACTTGAAAAG	ATCAAGAGAT	TGTGTTTTTG
32701	TTTTTCAGTT	GTTATTCTCC	ТААААСТТТА	TGCATGAGGA	AAAGTAAAAG	Ψαντητάνα
32761	λλπλλαααλλ	ATAAAACAAC	CAACAAACAC	CTCCACTACC	CHCCCAACCA	AACTICCTTTCC
		GACACCACAT				
		CAAGACATTA				
32941	ACCATGCTGT	ATTGCTATAA	GTCATGTTAC	ACACTGGGAG	ATGGCTTCAG	GGGTATTTGG
		TTGTTTGGGA				
		TAGGTTAAAC				
33121	CAAACTTCTA	CTGAATGTTC	TGACTGTAAG	CCCAGGATTG	CATGACAAAA	CCTCTAGTCT
33181	GAAGTTACTC	ACCTTGACAG	GTTGGTTCTG	GAGATGACCA	GTTTCCAAAT	GGTCCACAGG
33241	ጥርርጥጥጥርጥጥር	AATCCCAGTT	አ አርምምምርምምር	CTTCACACCA	CCTCDDCCCD	CACTCTCACC
22271	TOUTITOTIC	AMICCOMOII	AAGIIIGIIC	CIICAGAGCA	GCIGAAGGCA	CACIGIGAGC
		GTTTCCCAAA				
33361	AAGGCTCACA	CTGAATCACT	TCAATAGGGA	AAGAAACAGT	ATGGGGAAGA	GTTAAGAGGA
33421	ACTGACGCCT	GGATTTGAAT	CCTAGCCCTG	CCACTTGATA	ACCATGTGCC	TTTAAACAAG
33481	$GTT\DeltaCTTG\Delta\Delta$	CCCTCCAACT	ጥሮልርጥጥጥሮጥጥ	$C\Delta \Psi C\Psi \Delta \Psi \Delta \Psi \Delta \Psi \Delta$	λαλααλλάλλ	TCNNTTCTC
22541	THE CHARACTER AND A TOTAL OF THE COLUMN AND	CANAGECAGA	TCAGIIICII	AMCHAIMIM	AGAGGAATAA	CHARACTO
33341	TIAICITIAT	CAAATTGATA	TGGAAACTAA	ATGTAATTCA	ATTAGCATAA	GTCAAGGACC
33601	TTAGAACAAA	GCCTGACTCA	TCAGAAATTC	TAAGTAAACA	TTAGCTAGTC	TTCATATTAT
33661	TATCTTCAGC	ATTATCTGTA	GTGAGAATCC	TTAAAGCCAA	ATAGGTGTAA	CTGGGAATGA
33721	CCAGCTTAGT	CGGGAAATAA	CTATCACATC	AGAGCCCCTG	АСТСТАСТАС	AGTATTCCCA
33701	CCAACATCTT	CAGAGAAAGA	CTCCCTCTCC	AMAMMANCOC	MMCMMMCGA A	CCACACAAMA
22701	UNDARIGIT	AUAMADADAD	GIGGGICICC	TIMITAGCC	I I CI I I GCAA	GGAGAGAATA
3384I	TAAAAGTCTA	GGAAGCATTT	TGACCTCAAT	TCTGTCTTCT	ATTCTAGCTC	AGTTCCAGAA
33901	TTTTAACTCT	TTTGATTTTG	ACAACCCTCT	CCAGAAACTG	TATCTATTTC	CCTGTTCTGA
33961	TTGGTGGTAC	AATAGGTAAA	ͲͲͲΔΔGΔሮͲͲ	CCAAATCAAA	CTTTTTCACAT	ጥጥካልርል ርርርጥ
34021	CCCATCCCAT	TTAGTAAACA	CMACAACMMM	CAMCMCMMAM	moomonmomo	TITACACCCI
34021	GCCATGCCAT	ITAGTAAACA	GIACAACITI	CATGICTIAT	TCCTCATCTG	TCAAATTTAA
34081	GCCATTATTG	CTACCTTGCT	CTAGAGACTT	CAAGGAAGAA	TGGACTCAAG	GAATCAGAAG
34141	AATTTTTGTA	TTTGGAAACT	ATATGAGATG	AGATTAGGGA	GAAACATGGG	AACTAAGAGA
34201	AAATGTTATC	TTTTTTCATT	GATTTAAACA	СТАТСТАТТА	ТАТАТСАВСС	ATTACTCTCC
3/261	CCChacyycy	CCMMVCvmmm	CACCOMOMAC	CACATATA	TITITI COMOC	TITIOICIUS
2420I	GGCTTGAAGA	GCTTAGATTT	CACCCTGTAG	GACAAAATGG	TAGGTAGAAA	TTAATGGGTG
		TATGTGTGAT				
34381	TGAATAATGT	ATTTGAGGGG	AGCTAATTTA	AAATTGTGGA	ACTCATCTAA	TAAACTATTG
34441	CAAGAATCTA	GAAGAAAGAT	AATGACGGCA	ATGGTAGTAG	АСТТСАСААС	TCCAACACAA
3/501	Δητης ση η η η η	CACTAAGTTG	עעעעעעעעעעעעעעעעעעעעעעעע	TINCA AMORMS	CCCMCCAMA	TOCIMORCAN
24501	WITHOWWAY	CHCIMAGIIG	TUVVVVVIIGO	TAGMATGITA	CCCIGCATAA	WIGIIGGGG
		GTCTCATACC				
		GAGAAAAGCT				
		TTAGCATATT				
		GTGAGTCCGC				
24001	VCWCVCVVC	CONTRACTOR	PANCECTOR	AAGIIIGACC	ACAGGATACA	TOTAGATTAG
2400T	AG I CAGAAGA	GCAATATACA	AAAGACAAAA	GCTGAGAAAT	TATAGTAGTT	TATGGTCCTG

2.00						
3486	I GATAAGTGC	r catgaaggai	CTCAGGAGA	A ATGATCACAG	GTAGAAAGA	TGAGAAAAGA
3492	I GTGATATGA	3 AGAAACCAAC	S ACAAAGAAA	A GTAAAATGTT	ΔΑΔΑΔΤΩΔΩΊ	CAAATACCCA
3498	I TACCAATAA'	r taaaaatgac	G TAAAATAGGO	: ATACCAATAA	CATAAGGGTT	מסמתממממ מ
3504	I GTTCAAAAA	I GGGGTGAGGG	F TAAAGTATT <i>I</i>	GGAAGGAGTC	ATGGCCCAGG	CATCAACTCA
3510	I AATGAGTTA	3 ATCTATAGAI	' CTATTTCAGT	' TGGTTGACAT	ጥጥልልልጥርጥልባ	, դապշշտատարո
301b.	I ATTCTTTAT"	I GTTTACAAAC	: ATTGCTTTT	' ΤΑΑΑΑΑΑΤΤΑ	AATTCTCCAZ	ጥጥሮ እስጥጥሮ እር
3522.	I GCTCACAAG	CAAGTGCCTCA	TATATACAGO	CATTTTGTGG	ΔΤΟΟΟΔΔΔΩ	ጥርር እአጥር አጥአ
3528	1 AATAGGACA	C TTACTGATCT	CAAGAAGTTT	TCAGTACCAC	ACCACACAC	CAAGTGAACA
3534	1 GATGACTTCA	ACATAAGTGG	GAGAAATGAG	CAACAAATAT	CTCCACCTAT	CAGGIGAACA CAGGIGAACA
3540	1 AAAGCTTCC	r ACAACAAACT	CTCTTTTCAAC	' AAMCMOMMAA	GIGGAGCIAI	TTTTTTGGCC
3546	1 ATCTCCAAA	, acycycycy , acycycycy	CCCCTCCTCC	AATGTCTTAA	AGATGACATG	TTTTTTGGCC
3552	1 NACTOROGA	TGAGAGAGAA	GGCCACCAGC	AAAGTCAGTG	TGCTACAGAG	CACATGTGTT
35501	L CCCMAACHC	AACTGCAAGA	AGGAAAGGAA	CTACTAGAAG	GAAAAAGCAA	GATACTTTCT
3536.	L GGGTAACTCA	GCCTCCTAAT	' GATAAATGGC	: ATAGTTTCTT	CCAGACCTTA	GAGTTCTAAT
3364.	TAATCTAACA	AGCTCATTAG	ATCGTGAGCT	' TCTTGAGAGC	GGGAATCTAC	CATGCTAATT
35/0.	L CCTTATGGTA	A ACCCTGACAG	CTTTTATCCC	AACACTGTGC	TTCTTGTGGT	ACTCAAAAAG
35/6.	L ACTIGITGAC	3 AAGTGAGTCG	AAACTTCATG	CTGACTTATG	ΔΔΔͲ ርጥͲͲΔ <u></u>	CCNNNCCTNN
3582	L CAATATTGTG	S AAAGCAGAGC	TTTCTGATCA	AAACTTCCCA	ጥጥጥርጥርልርልር	ጥርርርጥእርጥአጥ
32887	L CATTTTGTTC	: CAACCAGCTT	' CATGATAAGC	TATAATGATT	CCTGTGACTT	ጥ ልሮሮሞልልሮልል
35941	L GAAGCAAAGA	AAGGAAAGAG	ACTTACCAAA	CTGACACTGG	GGCCCATAGT	ACCCCACATC
36001	ACAGTTGCAG	GTGTAATTAT	TGATGATTTC	TACACATTCT	CCATCCCCAC	TCCATCACCA
36061	GGGCTGGCAA	GAAGCTTTAA	GGAGGTCAGA	חמיית לו לו לו לו לו לו	TOTAL DECOME	TGCATGACCA
36121	GTACTCAAAG	TCATTTCTTT	ΔΟΛΟΔΙΟΛΟΛ	7 7 CCMMMMCM	CECACAECAE	TTACATTTTA
36181	AGGAAAGGTT	TATTTGTAAA	TTCATACATAGAT	AACCITITGT	CTGAGATGAT	TTAAATAATC
36241	מיים מים מיים מיים	TATITOTAMA	CATACCAT	AAAAATCATA	TGCTAAAATT	TTTACGTATA
36301	TANTACACIA	AGCATATAGT	CATAGGCATT	TATTTGCTTT	TGGAATGAAA	TTACCAATAC
26261	. IAAIAIICIG	TAACACTTAT	AGGAAACTTA	GTGGCATACC	TTGAAACTCT	TGAAATTACT
36401	. IGIIIITTAAT	GAGTGAGAAG	GTTAAATGAT	GACCTGACCT	CAATCATTTC	TGCATGCAAT
30421	TATTTCTTGG	CAATCCCTTT	CTTTATAGAA	ATCAAAGATT	AAAAAGTCCA	AATTTGCTAA
36481	. AACGGTAGAG	TCCAATTTAT	AAGAGACCAA	ATTAACTATG	GTTCATTATT	AAAACATCAC
36541	. TTGGAAAATG	CTGGCTGTTT	TGGAATTGTA	GAAGATTTTA	$C\Delta C\Delta \Delta \Delta T\Delta TT$	CDTDCDCCDD
20001	. AGATAGTGCA	. ATTTTTATAT	AAAATTATAT	AAGGTTAGAC	CAAGAAGGAA	CCACCCACCA
30001	. CCACACTCTC	TACTTCACAA	TGTGAAAACT	GAGGTGATGT	GAGCCTAACT	ጥጥሮሮሽ እርጥሮሮ
36/21	. CCCCAGCTGT	CAGCTTCTCC	TCCCCTGCCT	ΤΑΤΤΑΤΌΔΑΑ	GGCACTGATT	ርጥርጥአርርጥርጥ
36/81	TCCTCTGTAC	TTCCTACGTA	GATCTATCAT	ΤΤΤΓΑΤΩΤΑ	$CTTC\DeltaTTTAC$	CCCTATACCT
36841	TTTGTGCACA	GGGACAAATC	TTACACACCA	ΑΑΑΑΤΤΟΤΙΔΙ	CCACTCACAC	CATCCAACAT
36901	TATATAGAGG	GCTAGATGTA	TTTTAGAATG	AACCAGAAGC	TCTTCTCATC	CCCCCACCEE
36961	TCCATGGGGT	AAATCTGAGT	ΑΤΤΟΤΙΙΙΟ	CCCTCCCCCT	TCCTCACTC	CACCCACCTT
37021	AGCCGTCTTG	TCACTCCCTA	CCTCTCTAAC	ACACCCCTCC	COMMUNICATION	GAGGCAGCAT
37081	CATCGTTCCA	TTTGCCTGCA	TCTTTCTTTC	MCMMC A MA MA	CTTTAGTTTG	TGGCAGGCGT
37141	ጥርጥጥርጥጥርጥጥ	CTTCTTCCCC	TC111G111C	CCCLCMTATA	GATCTCCACG	CAGTCCTCCT
37201	TGTTCTTCTT	GTTGTTGGGC	CAUCATUTU	CCCAGTTCTC	TGCTTCTTCA	GTAAGAGATT
37261	A A C C A C T C A A	CACCCACGTC	CATATTCCTC	CTATCTTCCG	GATTCCTATC	CAGTAGTAAG
37201	CMA A A MCMCM	AGGCAGAGTC	TTCTCCAGAT	ACTCAATTTC	CGCCTTGTTT	TGTATGGCAA
37301	CIAAATCIGI	GTAATTGTCT	CGGCAGAATC	TTCTAGCCCT	TTGCCAGTTC	ATGGGTTTTT
37441	CAGAATAATG	GTAAGTCCAG	CAGTCGGTTC	CATGATGTGC	CAGGAAATCT	GCAAGACATC
3/441	AGTGTGACCT	ATGCAGACTT	ACATAATGTT	ACAGCTAAAA	AGAACCTAGC	ACTACTCCAG
3/501	GCTGAGCTAG	ACACTTAGAG	ATGAGGAAAC	ΔαΔαααπάλα	እርጥርጥ አጥርጥር	A C C A M C M C A C
3/201	GATCACAGAA	TAGTTGTTTG	CAGATTTGAA	GTAGAACCTA	CACCTTCTCC	ርጥጥር አ አጥ አጥ አ
3/021	AGAIGCIIII	ATCTAAGGTT	CTATTCAAA	CAAATTTACT	CCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	
2/001	TTATTAATT	TTTTCTCAAA	ATTATTTCAG	GTGAAATTTA	ΑΓΓΑΔΓΑΤΑΤ	ጥጥጥ እር እር አጥጥ
3//41	CATATTTCTT	TTTCTTTGTA	GCTGTTAATG	ATTTACAACT	AATTACCCTC	ጥልልጥልጥሮልጥል
3/801	TAACTATACA	ATTTACGTAT	ACTTTTTAAT	CCTGGAATCA	ጥጥርጥጥርል ል ር	CCCAACACAT
2 / 8 P T	ATGTACCTAT	GGGAGAAGCA	TAATAAGGAC	AGGAAGAACA	CTCACATACT	ጥጥጥ አስርጥ አስር
37921	CTCTTTTACA	TAAAAAACAT	TTTATTTTAC	CATAGGAAGA	ACTCCTTCTC	CANANCCCCA
37981	ATATACCACT	CAACTCTTAT	ATATCTAACT	GTATA ATTTT	TAAAAACAAC	AAAAAGCCCA
38041	GCCAAATGGT	ATAGGATTAT	CAAATTCATT	ACATCATCTT		AATTTACAAA
38101	CTGATGATGT	TTAATAAACA	TATECACCCA	TCANATATION TO A	CIAIACACAA	AGAGACTCAA
38161	ΤΑΑΑΓΑΓΩΤΑ	ΔΤΤΑΙΓΙΔΙΑ	CACMMCAMAA	TCAAATATGA	GGGCTTTGAA	GATATCTAAT
38221	CUVCVACVA	ATTACACAAT	GACTICATAA	TAATATATGG	CATTCTAAGC	ATGGTATGAT
38281	CINCUIGNAI	CACTATTTAA	TACAGTAAAG	AAACAGATAT	AATTGATGGT	AAAGAGCATC
30201	CACCCAAAA	CATTTTGAAC	AGAGTTTTGA	ATGAGCATTC	CACTAGAATG	CAAGTTCTAA
30401	UMUUUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ACTGTTGTGT	CCACTGCTGT	ATCCTTAGTG	CCTAGCATAA	ATTTCACACA
38401	TTGTAGGGAC	TCAGAAAATA	CCTGTTGTAT	GAAAAGAGCA	ርጥ አ አርጥጥጥርጥ	ΔΨΩΨΩΛΩΛΩΛ
3040I	GTGCAGACAT	GGCATAAGGA	ATGTGTGAAC	GGGAGAGTTA	CCATGTTTGC	ͲͲϹϹϹͲϪϹϪϹ
20221	CTGAAAATCC	AGGCTAGGGA	GAAAGAAGAC	ATTAGTTTAC	ТТАССАААТС	ΔΑΔΑΔΟΟΔΑΟ
28281	TTCAAAGCTA	TTGCTGGAGA	GTCTTCAAGA	ATCAGATATA .	ልልልጥጥጥርጥርል	CAACAATCCC
38641	AGAAGGACCA	AAAAATGATA	AACCCCCGTC	CCTTAATAAG	つかしているかりとう	<u>እ</u> እጥጥርጥእር እ እ
30/01	ATGACATTAA	TGTACACTGA	ACTATGAATA	ΑΑΑΑΤΑΓΑΑ	ΔΑΨΕΔΕΈΨΕΕ	ጥ እ እ ጥ እ ጥጥጥር
28/0T	GTACAGATTG	TAAGTACCTT	AACAGAGATT	ΤСΤΤΑΑΤΤΑΑ (∼∆₩₩₩₩₩₩₩₩	ጥጥ እጥ አ አጥጥ ር አ
2007T	GGGATTTTGT	GGGGTTATTG	GGATTTGAAC	TCTACAGCAT (ፕርርርጥ	Δ ርርጥጥ
38881	TAGTGTTCAG	GAGTTTCTGG	GGAAGAACTA	AAGGTAAGAA		CULLINGUAN
-			- 3. I.O. II.O. IA	UNDAA (JAAMAAAAAT	GIIIACAGAA

38941	. GGGATAGAAT	' TAACAGCTCT	GTGAAATAAT	TTTCCCTTAG	ACTATGTATA	ACTAGTGGAT
39001	. ATTTAAGAAA	AATGAATATA	AGTAAAATAG	ACTTAGCGAT	ATATAAATAT	CATAACATAC
39061	. CACAACAGAG	CATTGTCCAC	CCCCACAACT	TGAAGATGTT	CCATAAGTCC	CTCTGGGTGC
39121	. TCTGACATTT	CCATGGAAAT	ATCTGCAAAT	GAAATACAAA	ΔΤΤΑΤΑΤΤΤΔ	CATCTATACT
39181	CTTAAACCAC	ACATTTATAG	CCTTTGAGGT	GGTGCTTACA	አ ርጥጥጥርጥጥአ አ	תאשראראים. האשראראים
39241	AAAACACATA	ΤΩΤΩΤΑΩΤΑΔ	CCCTCTCTCA	CCTAACACCT	TOTTICITAN	TAGATGAAAA
39301	ΔΨΨΔΟΠΟΠΙΙΙ.	תיייית מייית מייית מ	CAACTCATCA	A CA COMMONO	TTCTCAGACA	TTTATTTTTA
30361	CCCDDDAC	MILLACATOA	BARCIGATGC	ACAGTTTTGT	TTTGTTCTAT	TTTATTTTA
32301	CGCTTTAGTC	TCAAGTTGCT	AATCGGTACT	GCCCTGAATT	TTTTCTATGG	TTTGGTAATT
39421	TTTATACCTG	CTTTTCTGCT	GAGCTATTAG	ATAAAACTAT	TTAATATTTA	CTATGTATAT
39481	. TTTTTAAAGT	ATTGTTGCTG	CTTAATTAAC	TATTGATGCT	TATATTTAAT	GTTATAGCCT
39541	. CACTCTTGAT	CATAATGGGT	CAATGCCTCA	AATACCTAAA	AAAAAAAAA	ATTAGATAGC
39601	CAGACACCAG	GAAAGAAAAG	TATTTCTTTT	TTTAATAAAA	AGAAATACCT	TTTTGAGCAA
39661	CTGAAATGAC	AAAGTCACAA	ATTTCCTGCA	CACCTTAAAA	ΤΑΤΑΓΤΤΑΔΤ	GTAAATGACG
39721	AGTTAATGGG	TGCAGCACAC	CAACATGGCA	CATCTATACA	TCTCTCACAA	ACCTCT ATCT
39781	TGTGCACATG	TACCCTAGAA	CTTAAACTAT	λλησησητικοκ	A A A TOTOTORIORA	THE CONTROL
39841	TATCACTTCT	CAGGTAGACA	CACTCTTTAT	DCC2222C2D	AMAITCIMIC	TICCAAAGCA
30001	TAICACIICI TAICACIICI	CACCACACAC	CAGIGITIAI	IGCAAAAGAT	CTGATTTCAA	TAGTATTTCT
39301	TCAAGAGICI	CCCCAGAGAC	AAAGTCAAGA	AGAGGAAATC	AGCATATCTG	AGAAGAAAGA
39961	TTTCAGGATC	ACTTTTTTG	AGGGTCTGAG	AAAATGTTTA	GTTTCTATAT	TATTTAAAAC
40021	CAGAATTGAA	ATGGGGTGAT	TCCTATCCTT	GCCACCTGCC	TCTACAACCC	CAAGAGTTTC
40081	TATCTGAGCA	TCTAAACGTC	TTTTAGGCTG	AAAGGCTCAC	CATGGCTTTG	CTTGGTCCTT
40141	CTCTAGTTCT	TCTGCAGCCC	ATTGAGCCTC	TTGACTTAGC	ACAAGGGTCT	CAGGTCCTTG
40201	CCCAAAGGGA	GTGTGCTGTG	CTGCAGGTAG	ACTGCACTGA	ATGTCAACAG	AAAGCCTTGC
40261	TTTCTTTCAT	TTCTCTAACC	CAGTCTCACA	TCCTCCTCCT	CCTCCCCTTT	TCCCTCCCCT
40321	TCCTCCTGCA	CTTCTCTTTC	CTCTTTCCCC	ACCCCTTTTCC	TACACTCCCC111	TCCCTCCCCT.
40381	CCCACTGACA	CANANATONA	CTCTTTCCCC	CARACTARE	TAGACTGGCC	TCTATTGCCT
40301	TCCCTCCTTCCTTTTT	CAAAAATGAA	CIGCIGATCA	GAAAGTAATG	TGACTAGATT	CTCTCTTCCT
40441	TCCCTCCTTT	CTATCCTTCC	TTCCATTCTC	CTATGCATCT	TTCCTTACCC	TCCTCCTCCT
40501	TCACTCATTG	TTGTTGCTGT	TCTTCTTCCT	CTTCTTTTTC	CTCCTGCTCC	TCTTCTTCTA
40561	CTTGTTCTTG	TTCTTGTTTT	TGTTTGGTTC	TTGTTCTCCT	CTTCCTCCTT	CTCTCTCTCC
40621	TCCTCCTCCT	TCTTTTCCAC	CACCCTCCCC	TATCTTTTTC	ATAAATGCTA	AACTAACTCT
40681	TGGCTACCTG	TGGTAAATGG	CCCTTGGAAA	TTGCAAATAC	TACAAATCAA	AACTGCATTT
40741	CAGACATATT	TATGATGTTT	GCAAAACTTC	AGTAGAGCTA	AGCAGTGGAC	TTGACTCGTT
40801	TCGGTTCCTT	CACCTCCGTC	TTTCCTTGCT	CACCACCTAG	TGGACGTCCT	TGTTAGTGGC
40861	ACTTCCTGAA	GTTAACCCCT	GAAGAGAGCC	САТССТСТСТ	ACCTTTTTCAC	CCTCTACCTT
40921	TGGGAGCCTA	CAAGTACCTT	ΤΑΑΤΑΤΤΟΓΟ	CCACTATAAA	AUCTITICAC	THE COLUMN TARGETT
40981	ТССАТСТСАА	ATTAGGACCC	אתאתכאתכאא	CCACAAMAAA	ALCARAGE	CACTCATCATC
41041	ACTENATER	TIAGGACCC	ATATGATGAA	GGACAATAAA	AAGGAAGACC	CACTGATGTG
41101	AGICAAIGAG	TCAAATGCAA	ATCAGATTTG	CATTTTTAGG	AAAATAATAA	TAACAACAAC
41101	AAAAACTCTG	AAGCTCAGCG	CCCCATATTT	ATTATATTGT	TTAATCTTTA	TAACAGCTCT
41101	CTGCTATAGA	TATGATTATT	ATCCCCATTC	TAAAGAGTCT	CAAAGAGGTT	AAGAAACAAA
41221	TTCAAAAACT	AGCGAAAGAC	AAGAAATAAC	TAAGATCAGA	GCAGAACCAT	AGGAGGTAGA
41281	GACACGAAAA	AGCCTTCAAA	AAATCAATAA	ATCCAGGAGC	TGCATTTTGA	AAAGATTAAC
41341	AAAATAGATG	GACCACTAGC	TAGACTAATA	AGAAAGAAGA	ATCAATAGAC	АСААТАААА
41401	ATGGTAAAGG	GGATATTACC	ACTGATCCCG	TAGAAATACA	AACTACCATC	AGAGATTACT
41461	ATAAACATCT	TTACACAAAT	AAACTAGAAA	ATCTAGAAGA	AATGGATAAA	TTCCTGGACA
41521	CATACACCCT	CCCAAGACTA	AACCAGGAAG	ΔΑΩΤΟΔΑΛΤΟ	CCTCAATACA	CHANNAVACAA
41581	GTTCTGAAAT	TAAGGCAGCA	ΔΤΤΔΔΤΔΩΟ	TACCAACTAA	ANNANCECCA	CCACCACAMC
41641	CATTCACACC	CAAATTCTAC	CACACCTACA	AACACCMCCM	AAAAAGCCCA	GGACCAGATG
11701	TATTCACACAC	DAMACAAAAA	CACCAACEC	MAGAGGIGCI	GGTACCATTC	CTTCTGAAAC
41761	TATICCAGAG	AATAGAAAAA	GAGGAACTCC	TCCCTCACTC	ATTTTATGAG	GCCAGCATCA
41/01	TCCTGATACT	AAAACCTGGC	AGAGACACAA	CAAAAAAAGA	AAATTTCAGG	CCAATATCCC
41821	TGATGAACAT	CATTGCGAAA	ATACTCAATA	AAATACGGCA	AACTGAATCC	AGCAGCACAT
41881	CAAAAAGCTT	ATCAACCACA	ATCAAGTTGG	CTTCATCCCT	GGAATGCAAG	GCTGGTTCAA
41941	CATACACAAA	TCAATAAACA	GAATCCATTA	CGTAAACAGA	ACCAATCACA	AAAACCACGT
42001	GATTATCTCA	ATAGATGCAG	AAAAGGCCTT	GGATAAAATT	CAACACCCCT	TCATGCTAAA
42061	AACTCTCAAT	AAACTAGGTA	TTGATGGAAC	GTATCTCAAA	ATAATAAGAG	СТАТТТАТСА
42121	CAAACCCACA	GCCAATAGCA	TACTGAATGG	GCAAAAACTG	AAACCCTTCC	CTATITATOA
42181	TGGCACAAGA	CAAGTATGCC	TCTCTCACCA	CTCCTCTTCA	ACATACTATE	CCAACMMOMC
42241	CCCACCCCAA	TCAGGCAAGA	CANACANAMA	AACECERATE	ACATAGIATI	GGAAGTTCTG
12271	NAUDOUCHA NAUDCHAMAN	CUUUCCACAU	CACAMGAAAIA	AAGIGIATIC	AAATAGAAGA	GAGGAAGTCA
42301	AATTGTGTCT	GTTTGCAGAT	GACATGATTG	TATATTTAGA	AAATCCCATT	GTCTCAGCCC
42361	AAAATCTCCT	TAAACTGATC	AGCAACTTCA	GCAAAGTCTC	AGGTTACAAA	ATCAATGTGA
42421	AAAAATCACA	AGAATTCCTA	TACAGCAATA	ATAGACAAAC	AGAGAGCCAA	ATCATGAGTG
42481	AACTCCCATT	CACGATTGCT	ACAAAGAGAA	TAAAATACCT	AGGAATCCAA	CTTACAAGGA
42541	ATGTGAAGGA	CCTATTCAAG	GAGAACTACA	AACCACTGCT	CAAGGAAATA	AGAGAGGACA
42601	CAAATGAATG	GAAAAACATT	CCATGCTCAT	GGGTAGGAAG	AATCAATATC	ATGAAAATGA
42661	CCATACTGCC	CAAGGTAATT	TATAGATTCA	GTGCTATCCC	САТСАВССТА	Chy ChCy Can
42721	TTTTCACAGA	ATTAGAAAAA	ΑΑСΨΑСΦΦΦΑ	ΔΔΨΨΨανανω	CCDDCCDVVVV	VYCYCOMMOM
42781	ATACCCAACA	CAATCCTAAG	CDDDDDDDDD	VVVCCECC&C	CCAMCAMCC	AMGAGCTTGT
42841	ADACTATION	DUT TOO THAG	ACED ACCORD	ACACCARCCE	GCATCATGCT	ACCTGACTTC
42041	AUCCACCARC	ACAAGGCTAT	AGTAACCAAA	ACAGCATGGT	GCTGGTACAA	AAACAGATAT
42001	ATGGACCAAC	GGAACAGAAC	AGAGGCATCA	GAAATAACAC	CACACATCTA	CAACCATCTG
47301	ATCTTTGACA	AAGCTGACAA	AAAGAAGCAA	TTGGGAAAGG	ATTCCCCATT	TAATAAATGA

43021	TGTTGGGAAA	ACTGGCTAGC	CATATGCAGA	AAACTGAAAC	TGGATCCCTT	CCTTACACCT
43081	TATATAAAAA	TTAACTCAAG	ATGGATTAAA	GACTTAAATG	GAAGACCTAA	AACCATAAAA
		AAAACCTAGG				
		CAAAAGCAAC				
43261	CTAAAGAGCT	TCTGCACAGT	AGAAAAAAAA	AAACTATCAT	CAAAGTGAAC	AGGAAACCTA
43321	CAGAATGGGA	GAAAATTTTT	GCAATCTATT	CACCTGACAA	AGGGCTAATA	TCCAAAATCT
		TAAACAAATT				
		AGATGCTTCT				
43501	AAGCTCATCA	TCACTGGTCA	TTAGAGAAAT	GCAAATCAAA	ACCACAATGA	GATGCCATCT
		AGAATGGCGA				
		AGAATGCTTT				
		GTGGCGATTT				
43741	TCCCATTACT	GGGTATATAC	CCAAAGGATT	ATAAATCATT	CTACGATAAA	GACACATGCA
		TATTGAGGCA				
		AAACTGGATA				
		GGATGAGTTC				
43981	TTCTCAGCAA	ACTAACACTG	GAACAGAAAA	CCAAACATTA	CCCATTCTCA	CTCATAAGTG
44041	GGAGTTGAAC	AATGAGAACA	CATGGACACA	GGGAGGGGAA	CATCACACAC	TEGGGCATCT
		GGGGCTAGGG				
44161	GTTGATGAAT	GCAGCAAACC	ACCATGGCAC	ATGTATACCT	ATGTAACAAA	CCTGCACGTT
44221	CTGCTCATGT	ATCCCAGAAA	TTAAAGTATA	ATTTAAAAAA	AGTTTAAAAA	AAGAAAGTTG
		ATAACTAGTA				
		CTCTTGATCA				
44401	AATGGGGAAA	AACGTGGAGC	CAGGGAGACT	TGTGAAAGTG	CCAGTGCTCC	CACTATACCC
44461	TGAAAGAAGT	ATCTAGACTT	ACTTTTTTCT	AAGTCCTCTC	CTCTAATTCT	CTCAATCTCT
44521	CTCTCTCTTT	CTCTAAGAGA	TGGGAATGCT	GCTCTGTCAC	ТСАСССТАСА	CTCCACTCCT
		CTCATTGCAC				
		CTAAGACTAC				
44701	ATTTTTGTAG	AGACAGGATC	TCACTATGTT	GCTCAGGCTG	TAATTCTGTC	TTGAAGCTTG
44761	TCCAATCAGG	CTTTCAGCCA	CACCAATTCC	CTGAGACTGC	TCTCACCAAG	GTCCTACACT
		AAACAGCCTA				
		TTCACTGGCT				
44941	AACCTCCAAA	CCCTTGGAGT	ACTCCAGAGA	TCACCGCTTT	GCTCTTCTGT	GTCTAACCTC
45001	ACTAACTTGG	TGGTCCAATT	CACACTCTTG	ACTTTGAATA	CCATTTAAAT	GCGAACGAAT
		GTACAACCAG				
		AATTTAGTTG				
45181	TTCTGAATTT	CTCCTCCAAT	CTGTAGGGCT	CTTCCCACAG	CCTTTCCATC	TCAGTGGATT
45241	ATAACTCCAT	CCTTCCAGTT	ACTCAGACCA	AAACTTTTGG	AGTTAACTGA	GACACCTCTC
45301	TTTTTTTTCA	CAAGTCATAT	CCAATGTGTC	ΔΑСΔΔΔΤΤΤΤ	GGTAGTGGAA	ATATTCCGGG
		AAATCAGAGA				
		CAGATTAACA				
45481	TTAAGCATTT	TGTGGGGTGG	GAGAGAGGGG	TATCTGTGCA	GGGGGAAGCA	TACTACAGAA
45541	GTGAGAAATA	AAGACAGTTA	TTCAATTAAT	TGAGACATGC	ATTACATCAT	TTCTTACTT
		ACATGTTTTG				
		CAGGGTCTTC				
45721	ACAGAAAAAC	AGGCAGTTAA	TTTTTAAAGG	GCTCCAGCTC	TTTCTCTTTC	TCAGGGGGAG
45781	TTGGGTTTTG	TTACATACAA	CTGAGTTTCC	GCTTACACAT	TATTTAATTT	CTTTTAATTC
45841	CTGTTCCAAA	AGAAGCCAGA	TACAAAAGGT	TACATCTTCT	СТСАТТССАТ	ΤΤΑΤΑΤΩΔΑ
		AGGTAAATCC				
		GGACTAACTG				
46021	GAACTAGATA	GACATTTTGT	TAGGCCATTC	TTGCATTGTT	ATAAAGAATT	ACCTGAGACT
46081	TGGTAATTTA	TAAAGAAAAG	ATGTTTAATT	GGCTTACACT	TCTGCAAGCT	TTACAGGAAG
		ATATCTGCTC				
		GGGAGCAGGC				
		TCACTTTTAA				
46321	CAGTACCAAG	AGGATGGTAC	TAAATCATTC	ATGAGAAACC	CCACCCTCAT	GATCAAATCA
		GGCCCCACCT				
		CCAAACCATA				
46501	TTGTACACTT	TAAGATGGTT	GTTTTATGTT	GTGTGAACTT	CACCTCAATA	AAAAAAATA
46561	TTTAATGTAC	ATTCAGCCAA	AAGAAGATTT	GGAATAGGAA	AGGTCATGGA	GATATATTAA
		ATGGGTGGTA				
		AGATCGAGTT				
		GAAGAACCGT				
46801	ATTGAAAGCA	GCATCCCTGG	GTCCAAGGGA	TGGTCAAAGG	ACCACTACCC	AACCCTTCCC
		CTCCATTACA				
		CTGCAGTTGC				
		GCCCACCTAC				
47041	TCCTTACATT	TGGCATGTAA	GCCCCTCTTA	CTGTCTGTCA	TCTATCTCCT	ACACAGTTCA

47101	CCTAAACTGT	TCTCTCCTGA	CCCAACCTTG	ATTTTCATCC	CAAATGCTTC	CTTGCCATCT
47161	CTGGGATTCC	TGTCTTCACC	ATCACCAAAC	TCCCCTCAAT	CTTCCAGTTT	CCTGTTCAAA
47221	СППППППППППППППППППППППППППППППППППППП	ACCTCCTTGC	ͲͲͲϹͲϹϪͲͲϪ	CCCCCACTCC	CTCCCTAGGA	CATCACTTCC
4/201	CCIGCAGATC	TCTCAAGATG	ACAATATTTA	TTCTCCACAC	AGCACATACT	TCAGGGTTGG
		CAATCTTCTC				
47401	CCTCTTGTAA	AACACACACA	CACACACACA	CAAAGAAGAA	ATAAAATAAC	TCTGCTTCTT
		GACACTGAGA				
		GATTGGCTTT				
47581	TCATAGTCTT	ACGGGACTTC	ACCATCCATG	GCACAACCAA	TACCACAGCC	CAGATCCTCA
47641	GCTCTCCAAT	GACATTTTCC	TCCACTAGAC	TTGAGCTACC	TCCTTCCCTA	GGCACAGCCT
		AACACCTAAG				
		TGTCTCCTAT				
47821	TTTACTTCTA	CCTCATTGAA	CCTCCAGGCC	ATTAAACATT	TCCTTATTTC	TAACCATCAG
47881	GTTTCTCCTT	ACTTGTTTGT	TTGTTTATTT	GTTTCTTTTT	ጥጥጥጥጥጥጥጥጥ	TTTGAGACAG
47941	CCTCTCACTC	TGTTGCCCAG	CCTCCACTCC	ለርጥርርጥአጥር አ	TCTCCCCTCN	CTCCACCCTC
40001	CAMOMOCOMO	COMMON COMMO	TECHOOAGIGC	MOIGGIAIGA	CLCGGCICA	CIGCAGCCIC
48001	CATCTCCCTG	GTTCAAGTGA	TTCTCATGTC	TCAGCCTCCC	GAGTAGCTGG	GACTACAGGT
48061	GCATGCCACT	ACGCCTGGCT	AAGATTTTGT	ATTTTTTATTA	GAGAAGGGGT	TTTGCCATGT
48121	TGGCCAAGCT	GGTCTCGAAC	TCCTAACCTC	AGGTGATCCA	CCTGCCTCAG	CCTCCCAAAG
		ATAGGCATGA				
40241	TOTONORII	AIAGGCAIGA	GCCACIAIGC	CCCACCIGGI	TICICCITAL	TIATITCAAG
48241	TCTATGCTGC	ACTATTAAAA	CTGCCTTGAC	AAAAATTATA	ATAGTGAGAA	AATTATGACA
48301	GTGAAAGAGA	TCTGAAATAA	TCAACCCCCA	TCTTGCCTTT	ACCTTCCAGA	CTGCCCTTAA
48361	TAATTCCTGA	GCTTGGGCCA	AGCTATCTTT	GGCAGAAATT	TAGTTTATAG	ͲͲͲΔΔΔͲGΔͲ
		CTCCAAAACT				
40401	COMMISSION	DUCKAMANCI	AAACIGCCIT	COMPANANCIA	ATAMAAGACC	ACCAATGAAA
		ATGAGAGGAG				
48541	TGTTATTCCG	GAGGTCACAA	GATTTGCAAC	ATCGCCAATT	ACTCCTGCAG	ATAACAGCAC
48601	TATCATAGAA	TCTGATTGGC	CTTTTGAGAT	GTCTTTTCAG	ATTCTTACAT	TTCAACTGGT
		GGACCCATCA				
		TTTTCCACAC				
		AAATTATCCT				
48841	CAGTAATAAC	AAAACCCCGG	TCTCCCATTT	GGCTGGCTCT	GCATGAATTA	AATTCTTTCT
		TCCCATCTTG				
10061	TTCCACACTO	ACACTGTTGG	CACAMAMAMC	mmccmmccaa	A A MINICAL A MININ	THE CHARGE A THE
40301	IIGGACAGII	ACACIGIIGG	CAGATATATC	TIGCTICCAA	AATTGGATTT	TIGITTAATG
		GTTTTCTTGA				
49081	TCTTGTTGAA	AAGAACTATA	TTGCTACAGC	CAGTACATAC	AGATGGATAG	CTAATTACTC
		GATGTGACCA				
		ACATAGTGTT				
40261	TICCCAAACI	ACAIAGIGII	AIAIGGIAIA	IGACCCAAIC	AACGGIGGCA	AAGCICCAGA
49201	AATACCACAT	AGACATCAGG	GACACTTTAA	ACTAATCAGC	CTATAGTCCT	TTTTCAGTAA
		TGGTTGTGCA				
49381	CACGCAACAT	TCGCTCCCAA	TCCTACTGAA	TCAGAATATT	TTGGGTTGGT	TCAGGAACAT
		TTCAGGGTCC				
		TCTTGCTTTT				
		GCCCTTGTAA				
49621	TTCATTATCT	TCAGGGCAAA	TTACCTGTGG	GTTAGGGTTT	AGGAATATAT	CTCTCTGTGT
		ACATTAGCAT				
		TCTCGCTCTG				
40001	CARACAGAG	TCTCGCTCTG	TCGCCAGGCT	GGAGIGCAGI	GGCGTGATCT	CTGCTCACTG
49801	CAAACTCCGC	CTCCCAGGCT	CAAGCGATTC	TTCTGCCTCA	GCCTCTTGAG	TAGCTGGGAC
49861	TATAGGCACG	CACCACTATG	CCCAGCTAAT	TTTTGTATTT	TTAGTAGAGT	TGGGGTTTCG
49921	CCATGTTGGC	CAGGATGGTC	TTGATCTCTT	GACCTCGTGA	TCCACCCGCC	TCCACCTCCC
49981	AAAGTGCTGG	GATTACAGGC	CTCACTCACC	ATECCCACCA	CTTCTCTCCA	TCTTTTTAACC
50041	TELECTROLIGIES	CHCARAGGC	A A CORD C A COCC	MINOCOMMON	CILGIGIGGA	IGITITAAGC
		GTGAATACAA				
50101	CTATGCATCT	CAATATTTTT	TCTTTTAGTA	TCTTTCCTTT	TTCTCTCTTA	TTACTTCCTC
50161	TTGTGCTATT	TTTACACCTC	CTTTTTTAAA	AAATTTTTTC	CCTTTTATTT	CTATTGACCT
50221	TTAGCCCTCA	CAATGATTCC	TACAAGCCCC	ΔͲͲͲϹͲϹͲΔΔ	Δ ΨCCCCΔΨΨC	λλλπλλππαςς
50201	TCCACTTTTC	ACACAMACAM	70777777777	CCAAACTCCC	ALGODORITG	AAAIAAIIGC
50201	IGGACITIIG	AGAGATAGAT	AIAIIAAAII	GCAAACTGGC	AGTAGTGGGG	GCAGTTGATA
		TTTTAAAGTC				
50401	TCTACTTCTT	ATTATGAGCC	AAAATATGCA	TTCATTCACC	CATGCATTGA	TTTATTCATT
50461	СААТАААТАТ	TTGTTGGATG	TCCACTCTGT	ATCAGGAATG	TGCTAGGTTC	ТСССДДТАСД
50521	GCAATGAACA	AGGTAATTTT	TCCCTACCCC	TAACCAACOO	VCVCummy cm	CCCCNACACA
50521	CACAMIGAMOA	AUGIAAIIIT	TOCOTACCC	IMAGGAACIT	AGAGITTAGT	GGGGAAGACA
20281	GACATTAAAC	AAACAATTGT	GCAAGTAATA	ATCTATAATT	ATTTATTACA	attaaaggaa
50641	GGAAGAGACA	TATGGATTAT	GAGGGCATTA	AAGAGGAGAC	CTAGTGTAAG	TAGCCAGTTC
50701	TCGTGAAGGG	ACATGTATTA	GTTGGAGTTC	TCCAGAGAAA	CAGAACCAAT	GGTGTGTGTG
50761	тстстстстс	CGTGTGTGCG	dededed and a	GGGGTCTCCC	CCTCTCCTTT	
50701	Y Y DD CO CO CO	CACAACTAC	1919191911	2000101000	COMPONE	TITITATAGA
20821	AATTGTCTCA	CACAATTATG	GAAGCTGAGA	AGTCCCATGG	CCTGCTGTCT	ACGAGCTGAG
50881	AACCAGGAAA	GCCAGTGGAA	TACTTCAAAG	TCCAAAGGCC	CTGGAACCAA	GAGTGCCAGT
50941	GTTGGAAGGC	AGGAGAAGAT	GGGTGTCCCA	GCTTAAAAAG	ACAGTGAATT	CACTCTTTTT
51001	GCTCTACATA	GGGCCTCAAT	GGGTTGGATC	ATGGCCACCC	ΔΟΔΨΨΩΟΨΟΝ	ACCCA ATCCT
2100T	CITAGICTAC	CAATTAAATA	CIAATCTCTT	I GGAAATACT	CTCACAGACA	CACTGAGAAA
51121	TAATGTTTTA	TCAGGGTGAT	AGAAATCTTC	TGGAGTTAAA	CAATGGTGAT	AGCTGTACAA

51181	TCACATACAT	TTTTAAAGGG	TGCGTTTTAT	GGAAAGTGAG	TTTTATCTAA	ATAAAATTTC
51241	TAAGAAAGAG	ACTTAACACA	GAGATAAACA	TAAGCACATT	TATTGTCAAC	CTTTATAGTG
		TAGGTCTGAC				
		TAATTTAAAA				
51421	CACAGCTAAT	TTCTAATGCA	GTTTACATAA	ATATTTACAA	CACTTAAACA	ATTTCAAAGA
51481	AAATAACACT	GTATTCCATA	CATAGCCTGA	TCACAGTAGT	TGTTCTCTCT	TATTTCCCAG
		CCCCTTTAAA				
		TTTGTTGTTG				
51661	CACATGCTAA	GTTAATGGAA	GTGTAGGAGA	GTTTTGATTC	TCACACTCCT	CAAGGCTAGA
		CAATTACTGA				
		GAATTGTTAA				
		TCCAGAGCAC				
51901	ACATCTTCAT	TCGTTAAAAA	TCTACCAGAT	GACTCTTTTA	CATGGTGAGT	TTCTATTGTG
		CTTCCATAAT				
		TGCAAAGCAC				
		TTTGTGTGTT				
52141	GGAAGTTTTT	CATCGTGGAA	ACCACATATT	TCTGAAAAAA	TATCTGACAA	TATACAAACC
		TTTTTACTCT				
		TTTATTCTGG				
		TTAAAACAGA				
52381	GAATAAGTAA	CTTTTACCAT	ATCATAGTTG	ACAGCATTTA	CAAGTTTTTT	AAGTCCCTAC
		TTGAATGAAG				
		TTAAGAACTC				
		GTAACCCTCG				
52621	CATGCATTTG	CCTGTGGGCA	TTCAACATCT	GTCATTTTTT	TAAGTTATAA	TATTTTTAGT
52681	CATTTTTTTC	CTCTAAACTC	ТССАТААТТА	TTATTCATTC	TTATGACAGC	ΔΑΟΨΟΨΟΨΔΑ
		AAACACTGTG				
		TTACAGCGAG				
52861	TTGGTCTCTT	CACCTTTGCT	TGGAAGAAAA	TATCCTTTCC	CTTCATTAGC	CAACACTTTC
52921	TTGATCCTGA	GAGTAGGAAA	GGGAACACTG	AGTCTTTTCA	GTTGAAGGCC	GTCCTTGCCT
		GATCTATTGA				
		GCAAGAAGGG				
		CTAGTTCCCC				
53161	AGAACACTTA	ATATTCTGCA	TACTGATCAT	GACAACAAAA	TGTACCTTCT	AACACAGACA
		GATAGACCAT				
		TATACCTCTG				
		CTGTGGACAT				
53401	ACACTAATAT	AAGATGTTAA	TAACAGGGGG	AATTGAAGGG	GTGGTGGGGA	GATATGTTGG
		GCTTTCTGCT				
		TTTTTAAAAA				
		AGTTAAGAAC				
53641	TACACCACTT	ACTAGCTTTG	AGATTTCAGA	CAATTTACTT	AACTTCTCTG	TCTCATTTTC
53701	TTCATCTGTG	TGATAAGAAA	TAAAGTAACA	GGCCAGGCCC	AGTGGCTCAC	GCCTGTAATC
		GAGAGGCCAA				
		TACAAAATCT				
		CCAGCTACTC				
53941	GAGGTTGCAG	TGAGCCAAGA	TCATGCCACT	GCACTCCAGT	CTAGGCAACA	GAATGAGACT
		ATTAAAAAAA				
		AGTTCCTAGC				
		TCATTATTAT				
54181	TTTCTTTCCT	CTCCTTCTAC	AAAAAATAAA	GCAACTTTCC	AGAACAATAC	CCAGGTGATG
		TGCTCCCTCC				
		GAAGATACCT				
54361	TTTTGAACTT	AAAGGATGTA	AGAAGGCTTT	TGGTAGCTTC	CATCTGATTC	AAGGCTTTGG
		GGAATACATG				
54481	AAAAATATGT	GGAATGTTCA	ATGGCATGCT	TTGTATAAGA	ATGCAACTTA	CCTGGCAGGA
		TTGCTGCAAA				
		TTAAATCCAG				
		CTCTGTAATA				
54721	TGCAAAGTGC	ACAGCCATCC	AAAGGGCATA	GCAGCTTCCT	AATGCCAGCA	AATAGCTACG
		GCCCAATTCA				
		TCCTATTTTG				
		AGCCAAACAA				
54961	GAGACTCTCA	AATTTAAGCC	TGTACTCCAA	ATAAATCTCC	TTAGGAAGAA	TTTTATCCAT
		GTGCTCATCA				
		TAGCACCCC				
55141	CCTGAAACAC	TTCCCACACT	GAGTTGTACT	ACTAACTCTT	TTCTTAATAC	TTCTGCTTAA
55201	TTATACTGCA	TTTTATCCAG	ATTCTAATTA	TTGTTTAAAT	CAGTAAGCAA	GACCATGACT

55061						
		AAAGAAATGT				
		TAAGCATTTC				
55381	GTCCAGCAGC	AGAAAGTCCA	GCTACCAAGG	GAATGTTGGA	CTCAGTGGGA	GCTAAGGAAG
55441	TAAGAGACGA	AGAAAGGTCA	TGAGGAAGAA	TTGATGTTAA	AGTCTCTCCG	TCCTGTCCCT
55501	TTGGCCTTTT	TTCTGTACAT	TCATTACTAG	GAGCAGAAGA	GCTATCTAGT	TTAATACAAG
55561	AAGCAGAGAT	GTGGCATTAC	AGGCCTTTGA	GATCTGCTCC	AAGCCACCTT	TGAAGCTATT
		GCAGGCAGAA				
		AACACTGCAC				
		CCTCTCCTCT				
		CAACTTCTGT				
		GAACTTTCTG				
55921	CTCCCCCTTT	TTCTTTTTAA	TCACCAGACA	ACCACCATCA	ATCAATGCAT	CACCTTCACA
55981	GGTAGGTAGC	AGGCCAGACC	AGTGTCCTGT	GGCTCCACAT	GTCCGAGCTG	CAGAGCCATT
56041	GAGCGTCCAT	CCTTCAGGAC	AGGCGAACTT	GCACACAGTG	CCAAACACGG	GCTCCCCACT
		TTGATCTTTC				
		GGCAGAGTTT				
		AATGTAAAGT				
		TGGGGCAATC				
		CACTCAATTC				
56401	AGATGTGCAC	TCAAGTTGAG	TTGATCCATG	TAATTCAAAT	CCCTCCTCAC	AGCTGAAGGC
56461	ACAAGAGGAC	TTGTAGGTGA	ATTCTCCAAT	AGGGGAATGA	GCACACCTCA	CCAAACCCTT
56521	CGGGGGCTGG	TGGACAGCAT	CGCATCTCAC	AGCTGGAACA	CACGAGAGAG	CACTTTAGAA
56581	GTTTGTTTGC	ATCTCCAGCA	ATACGTTTCC	CAAGGTAACC	AAGTTCCCAA	GCTCTTCAAT
		ATCTTAAAAT				
		CTCCCCTGTG				
		GGAGAACTCA				
		GTAGCCTCGC				
		GTCAGAAAAT				
56941	AACCCAGTTC	ATTCAAGCAA	CACTTGGAGA	ACTGAAGATT	CTTTATAATT	CCCTGGACAA
57001	ATGGGAAGAT	GGCTGTGTTT	TCTTTGAATT	TCAGCCCCCT	CACTGATCAT	GGCACTAATT
57061	AAAAGACTAA	TTAATCAGAA	CATTAGTTCC	TGAGCACTGT	TCTTCTAACA	CACAAAATAA
57121	ATTATGGTCC	AAGGAAAGAT	TTCACGCAGT	CTGAGGACAA	CATATGGGTC	ATGGATGTTT
		CCAAAAAGAA				
		GTGTTATGTT				
		CCTGATAGTA				
		TTTACTGCTT				
		TCATCACTGC				
		ATCATGTTCT				
57541	GATTAAGAAT	TCTGTCTATT	CCATGCTAAT	GTCTACAAAG	TTTTATCAGC	ACATCACAGT
57601	TAAAAAAAA	CAGCAAAGAA	TTCATTCTTA	ACACATATGA	TCCTTTCCCT	GGCCAAACAT
57661	TAGTTCTTTT	AAATGAATCT	CAAAGATACG	AGGGTTGCTC	ATCAAATCTG	ATTTCTATAG
57721	TTAAAGTGGG	TATTGGTTTT	TTTTTTCACT	GTCCAAGTTT	GAAGATGGTT	GTTCTTTAAG
		TCGAAGGATC				
		GGTGCATTCA				
		GGATGATTTG				
		AGGCTGGCGG				
		GGCCTAGAAT				
		TCTCCATGTG				
		GAGGTACACT				
58201	GTCAAATGTA	CAGGTTGTGT	TCCATGGGAA	GCTTCCAGGG	TTTTGGAAAC	ATTCCACGAA
58261	CCCATTGGCT	GGATTTGTCA	CAGCATCACA	CTCAACCACT	GAGGATTTTA	AAGAGCACCA
58321	TGAATTTTAC	AGAAGAATGA	TCTTTTCACT	TCCTATTGAG	CTGGGTGCCT	AACAGAGTGA
58381	GGAAGCTGCC	TTCAAAGGGT	AGATCCCAAA	GTCCTATGTC	AATTCTTAGG	GACATGCACA
		AAGCTTTTAT				
		AGTGGTCTCT				
		AGATTAGGAG				
		GAGCCTGAAG				
		AGAAAAAGAG				
58741	CATGGCTTGG	AAAAGTTAAA	CAGGGAAACA	AGATGAGAAA	TCCATTGAGA	TTTCTAGAGC
58801	TTTATTGTTT	TATGGTCTCC	CTTACAAATC	ACCAGAGCCT	CAGAAACACC	CATTTCAAGC
		AAAACCTCTC				
		ATTGTATTAA				
		AATCAAAAAA				
		ATTTACCATT				
		TCTCCATGCT				
		TGAAGTTTCC				
		TACAGTTCAC				
59281	CCTTTAACAG	ATAAGAACAC	TGGAAACTAG	AACTACAGTT	TGGTTTTTTT	TTTTTTAGT

59341	TTAAAAATTT	ATAAAATTTC	TAATGGAATT	TGTAAAATTG	ACTGTAATTC	TACCCCTTTT
59401	CTTTTATTCA	AGAAAATGCT	GATCCATAAC	AACAACAACA	AAAAAGCAGT	GATGACAACC
59461	ATAAAAAAGA	AATATTGAGT	GATATGGGGA	GAGTAGTGTA	ATTGTGTTTA	CCTCAAAACT
59521	GTTCAAATTA	TATGAACAAA	CACAGCAAAC	ΤΤΑΘΟΤΑΟΟΑ	CDDCDDTTT	CTTCTTACTT
59581	ΤΤΟΤΟΣΟΔΑΟ	TGCTAAAAAT	ACTACACTAA	CCTTCCAACC	ACCAMCACAA	CCARRCACAA
506/1	ACCTATATATE	CANAMAMANA	MCIACAGIAA	GCTTCCAACC	AGGAT GAGAA	CCATTCACAA
50701	AGCIAIAIII	CAAATTTAAG	TACTAGAATA	CATTACAAAT	TTTAAAACCC	TAATGCTGCA
59/01	CTGTCTACTA	TAGTAGCCAC	TATCTGTGTG	GCTACTCAAA	TTTAAACTTG	AATTCGTTGA
59761	AATCAAATAA	CATTTAAAAT	TCAGTTCCTC	AGTGTCACCA	GCCACATTTC	AAGTACTCAA
59821	TAACCACATG	TGGCTCATAG	GTACACACTG	GAAAACACAG	CTATGGAACA	TTTCCATTAT
59881	CACAAAAGCT	CTACTGCACA	ACGCTGTGCT	AAGGAATCTT	GGAGAGAAGC	TCATCTAACT
59941	CTCTTAATGT	ACAAATTTAG	GAACTGAGAC	$CTC\DeltaTTTC\DeltaT$	TCAACTCACT	TCCTCCATCC
60001	TACACCCCTA	GTCATTACAG	ACCCACACCC	CACACCAMCA	ACCAACAMAC	COMCONOMO
60061	CENTCHCACE	OLCHIINCHG CAMMMMMAN	CONNECTOR	CHUAGCAIGA	ACCAAGATAC	CCTGGACTCT
00001	GIAACICACI	CATTTCTACT	GCAACGTCTT	GTTACCACCT	AGATGAGGTG	AGTACATGTT
60121	CCTCGCAGGG	ACACAGAATT	ACAGTTTATT	GAATGTGTCC	TGTGTGCCAG	GCACCATGTA
60181	ACCATGAGCC	TATGAAGTTC	ACACTATTAT	TATCCTCATT	TTACAATGAG	AAAACTGACA
60241	TAGAGAGTTA	AACTATCTTG	TCAAGGTGCC	AAAATAAATA	ACTGGTGAAT	CTAGGACTCA
60301	AACCCAGCAG	GGTCTGACTT	CATAGTCTCA	GCTCACGATC	ACCATATGAC	ΑΓΓΑΨΈΤΕΓΑ
60361	CCAGGGAAGG	GAAGGCATGC	AGACCTGACT	CTAATCCCAC	CTAGGACCTC	ACATCCTCCT
60421	ACCATCTCA A	GTGAAGAAAG	ACCCAACAAC	CIAAIGCCAG	THOUSACOIG	MUNICUTUCT
60421	TCA ACCCACC	CHONCACAMO	AGGCAAGAAC	CAGACITACI	TIGCICACAC	TTGAGTCCAC
00401	IGAAGCCAGG	GTCACACTTG	CAAGTGTAAT	TATTGATGGT	CTCTACACAT	TCACCGTGGC
60541	CACTGCAGGA	TGTATTGGTA	CAGGCAGCTA	CGGAAAATAC	AAAGCATGAT	GAGGAGGACT
60601	ATTACTGTGC	TTATACTGAG	TGCCTTTGAT	TTTAGAATCA	ACAGTGTGCA	ACAGAGACAT
60661	CAGCAGTCCT	ACAGAGTGCC	ATAGACTTTA	ACTGAAGTGT	TTTACAAAGT	TCCAAATCTG
60721	AGTTTCAGGC	CCACCTATCC	TAAACCTTGA	TGCTAATGTA	TAGCTGTGGC	TGGCACCTAC
60781	CGTAGAAAAT	TTACTTCTTC	ACAAACTCTG	AAGACAGTTC	CCCTACCACA	ΔΑΤΔΑΔΟΔΑΟ
60841	ΤΔΑΤΤΑΑΤ	ATGTATTGTG	TCTCTCCATT	TTTTATATATCTA	AACAACTACA	TATTATACAAG
60901	$C\Delta C T \Delta T T T T T T T T T T T T T T T T$	ATATATTTTA	TOTOTOCATT	TACACACAMA	MAGAACIACA	MARGROROWA
60061	CUCINITIAL	WININITIE	AMARAMACA	TACACACATA	TATGTGTGTA	TATGTGTGTA
61001	IGIAIAIAIA	TAAAATGTAT	ATAAATGCTG	TAGGCTATAT	ATATATACAC	ACACACATAT
61021	ATGTGTGTGT	GTATATATGT	GTGTGTGTGT	ATATATATAC	ATATCCACAT	ATTCTTGCCC
9T08T	ACATTCACAC	AAAACAGCAA	AAGAGAGAAA	CTTTAGCAGT	TAAACAGAAT	CTTTTGGAAC
61141	ATAAAATGAC	CACAATAGAG	AGCAGTTTTT	GCATGCTGTA	AATTTGCCAA	GATGCCCACA
61201	CACTGAAACT	ACCTCCCACT	GCTGCCGCAA	ACTCCCTACC	TGTGTAGCAT	AGGGCAAGCT
61261	TCTTCTTGCT	GCACCTCTCA	TCATTCCACA	TGCCCACATC	TTTTTCTCTC	TTGATGTAGA
61321	TCTCCACGCA	GTCCTCATCT	TTTTGCCTAT	TGTTGGGTTC	ACCTGGAGCC	CAGTTCTTGG
61381	CTTCTTCTGT	CAGAGGTTTC	$TGGGTTCCT\Delta$	CCCAGACCCA	CACATTCTTC	A CTTTTTTCTCA
61441	ΤΤΟΟΣΙΟΙΟΙ	GTAATAACTT	CCTCAATACC	TCAATATCCA	CTTTTACCTAC	TC A A TC TC TC TC
61501	CTTTCTTTTTC	AATTGCAACC	ACCTCTCTCT	A COMMUNICATION	CARMARCOR	CECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
61561	CITIGITIE	AATTGCAACC	AGGIGIGIGI	ACCITIGCIG	ACAATAAGCA	CTGGCCTCAT
61.601	CATAAGICAI	AGCTTCCGTG	GAGGTGTTGT	AAGACCAGGC	TCCACTCTCT	TTAATGAGAA
01021	GCACTAGTGG	GAGAAAAAGA	AAAGAAATGG	TAGAGTTTGG	TACTGTTGTG	GTTTAACTCT
91981	GACAACTGTG	CTTTTTATTG	TCTTATTTTT	GGCAATGTTT	GTGACATGGC	CCAGACTTTT
61741	CTCATCTTTT	CAAAAGTAAG	AAGTACGTAT	GAAGAAACAG	CGACTTATTG	TTTATCTCTT
61801	TTGTGACTGC	CACCCACTAG	GTACCTTATC	CACACTCACT	CACAACATTA	TAGTATACCC
61861	ATTTTGTAGT	AGAATAATAA	TCAGAATAAC	TAAGCTTTAT	TGAGCACTTA	GTATGCACCA
61921	AGAAGCACTG	TATGAGGTAC	TTTCCATGAA	ССАТССТАТТ	CAATCCTCAC	AATGCATCTG
61981	GGAAATAGGT	CATTATGATC	CDCDCTTTDCC	ACTTAACCAA	ACCCACACAC	CARCACCOAA
62011	ACTA A ATCAC	CCCAAGCCCA	CCCAACAACA	CAMMOGAA	AGGGAGACAC	CAAGAGGIAA
62101	CAMAMOOMOM	CCCAAGCCCA	GGGAAGAACA	CATTGCAGGT	AGAGGTCAAG	GATGCTGCCA
02101	GATATCCTGT	GCAGGACAGC	CCCAGACAAG	CAAGGATATT	TCAGTCTGAA	ATATCTATAG
62161	TGCGAGAATG	AGAAATCTTG	GTCTAATGGC	ACTGACTTAC	CCAAAGTGAG	AGCTGAGAGA
62221	AACTGTGAAG	CAATCATGAC	TTCAAGAGTT	CTTTTCACCC	AAAGGTTTAG	GCTTGAAATA
62281	CTTTCCTGGG	GAGATAAAAC	ACAAAATGAA	TTAAAGAAGG	AAATCGTGGG	TAGCTAGTTA
62341	CATTATTCTA	CCATGATGTT	TAAGGCAGCA	TCCTAAGATT	TTGGGCAAAG	GACACTAGTG
62401	CAATAATCTT	TATTTCAGAG	ТТТААТСААА	ТАВАТАВАСА	ΔΔΤΤΤΤΔΔCΔ	CTTTCATTAT
62461	TTAGGTCAAA	GAGAAAAGAC	ΔΕΕΤΤΤΤΑΕΕ	TACAATACAA	TANCACCTTC	TACACATCEC
62521	CTTTTTTTTTTT	GAAGGCCTTT	TOGITITAGE TO THE TOTAL	TACAMIACAM	CCCCACCOMC	COCCERTATION
62521	CCCMMCMCCA	CAAGGCCIII	TGCATATCTG	TGTTTCATGG	CCCGAGGCTG	CCCTTATAAA
02301	GCGTTCTGCA	CTTACCGTTT	TGGGAAGCAG	TTGTTCAAAC	ACAGGATCTC	TCAGGTGGGT
62641	ATCACTGCTG	CCTCTGTCTC	AGGTCAGTAT	AGGAGTTTTG	ATGTGAAGTC	AGCCAAGAAC
62701	AGCTGAACAC	TACTTCGGCT	GAGGCCCTTT	TATAGGAGGG	ATTGCTTCCT	GTGAATAATA
62761	GGAGGATATT	GTCCACATCC	AGTAAAGAGG	AAATCCCCAA	TGGCATCCAA	AAACTTTCCC
62821	GGGAATATCC	ACGATGCTTA	AAATTACAAT	GATGTCAGAA	ACTCTGTCTC	ТТСААССТАС
62881	TTCACCTTTG	TCCATGCCTT	ТАТАТССТАТ	ATGCAATTTT	ΑΨΨΑ ΔΨΑΨΩΝ	CDDDDDTCCD
62941	ΤGΑΤΤΤΤΤΔΔ	TTATAATAAC	<u>አጥልልልርጥርጥ</u> ል	ጥርጥርጥጥጥአአኣ	77C44C47777	VCDDDCCDDC
63001	THEFT	Culculcy mem x	CHACACCANA	TOTOTITAMA	MMCXCXXXC	CARCOLLIG
63061	TINGINGIGI	CTCTCATGTA	GIIGIGGTAG	TAATTAGAAT	TTCAGAAACA	GAAGGAAACC
03001	AAGAATAGGT	TTGTCATCCA	TAGTCTACTA	CCTTCAATTT	CTCATTCATA	GCTGTGGATA
03121	ACCAATCACT	ACTCATTTTT	TCTTCCTTTT	TCACCTGCCA	ATTCAACATA	TTTAACATGC
63181	ACTGTCTCAC	AGAGGAATGA	CTCACAAGGT	AGATATTAAT	CTTCAGATTT	TGCACGGCAG
63241	TTATGCCTAA	ATTAAAATAT	TATCTAAAAA	TAATATCTAA	CACTCAAATG	GTTAAAATAA
63301	TGCCTTATTT	TAAAAAAAGA	AAAATGGGAA	ATAGATATTT	ACATCTGGGA	AAGTTTCATG
63361	GTTTGTTCAG	TGAAAAAAAT	AAAAAGGAGG	CCAGGCACAG	TGGCTCACGC	CTGTAATCCC

63421	ACCACTTTGG	GAGGCCGAGG	CAGGCGGATC	ACCTGAGGCC	GGGAGTTCAA	GACCAGCCTG
63481	ACCAACATGG	AGAAACGCCA	TCTCTACTAA	AAATACAAAA	TTAGCTGGGC	ATGGTGGCGC
63541	ATGCCTGTAA	TCCCAGCTAC	TCGGGAGGCT	GAGGCAGGAG	AATCGCTTGA	ACCCGGGAAG
63601	TGGAGGTTGC	AGTGAGCCAA	GATCACGCCA	GTGCACTCCA	GCCTGGGAAA	CCACTCAAAC
63661	TCTGTCTTAA	AAAAAAAA	AAAAAAAGAA	ΑΔΩΔΑΔΑΩΔΑ	αααπααααα	ACCCAAAACT
63721	ΑΤΑΤΑΤΑΤΑΤΑ	ATTTAATTGG	TCAAAATTTTT			MANAGORAMCI
63781	ΔCΔΔΠλλλλλ	TTCTTCCACA	AUCUUN ACAC	TC A CM A A CM C	TIIGAAAIGI	CAMPROCCAM
62041	VOUCH WWWW	TOTTCOACA	AIGITAACAG	TGACTAACTC	TGGATGGCAG	GATTTGGGAT
03041	AATTTTTATA	TCCTTCATTA	TTATTTTCAG	GATTTTAAAG	TTTTTTTCAA	TTTCCCTTTT
63901	TTTCACCTTT	ATAGTAACAA	GAATACAGTT	TAAAGAAACT	TGTCTCTAGG	CCAGGCATGA
63961	TGGCTCATGC	CTGTAATCCC	AGCACTTTGG	GAGGCTGAGG	TGGGTGGATC	ACCTGAGGTC
64021	AGGAGTTCCA	GACCAGCGTG	GCCAATATGG	TGAAACCCTG	TCTCTACTAA	AAATACAAAA
64081	ATTAGCCGGG	GTGTAGTGGC	GCATGCCTGT	AATCCCAGCT	ACTGGGGAGC	CTGATGCAAG
64141	AGAATCGCTT	GAACCCAGGA	GGCAGAGGTT	GCAGTGAGCT	GAAATCACAC	CATTCCACTC
64201	CAGCCTGGGC	GACAGAGCAA	GACTCCATCT	CAAAAAAAAA	CANANANACA	ANANCANANC
64261	ΔΔΔΔΩΔΔΔΤΤ	TGTTTCCAAA	TCCAACACAA	CCACAMCMAM	CUCCUMUCCU	AMAMGAMAAG
6/321	TERRIOR TOTAL	CACAMMMCMM	COCCOOCAGA	COAGAIGIAI	GIGGIAICCI	ATATTCCTGC
64201	TOTICALLI I	GACATTTCTT	CIGGGIGATI	GIATACATTC	CCCATCTCTG	CATCTTACCC
04301	TATCTAAATG	ATGGTAACAG	TAAATGGGGA	TCATTTTAAT	TTCCATATTC	TGTAGGTTTT
64441	CAGAGCTCAA	GTCAAGCTAA	TATTCTATAT	CTACAGCCTT	TCAAAATAGG	AGGTCTATCT
64501	AAAAATGTAC	TGTCAGCAGA	CCTGAACGAG	TAGTGGTAAA	AGCCTCGTTT	TTCTCTTTAC
64561	TTGTTAGCAC	TGGTCTTTCT	GTGTTCATAA	AGATGTCAAG	ACCCAAAAAA	AAAACAAGAA
64621	AAGAGAAGAA	AAATTCCAAA	AAAGACAACT	GATTAGAAAA	AAATAACTTA	ATTAACGAAT
64681	TTAATTCAAC	CCCTATCAAA	AAGCATAGAA	TTTATTCCCT	CCACCTTACC	ΔርጥርጥርጥጥΔር
64741	ATGATCCAGA	TACTGACATT	ΑΨΨΟΟΑΑΨΨΟ	TTTATCCCAC	TTTACTTACC	TCAATCTCCT
64801	TGTTGCTTCA	ATAAATTCAG	ALLOCATIO	ACTCATATAC	TOTALIAGE	CAMMONACCO
6/861	CACAATCTCA	VCDDCCCDDV	AMACAMMAMC	MCHAIAIAG	IGITIATITA	GATTTTAGGG
64001	AUTOMATOTOM	AGTTGGGTTA	ATACATTATC	TGTATGTATT	TTATTTTTAA	TAAAGTATGA
04921	ATACATAATC	TGCTATTTTT	AAAAAGCATG	GTCAAATGTA	TAGAGTAGCC	AAATCTTAAA
04981	AAACAATTTA	TCTTCGATAT	CAATAAAGTA	CCTAATAATT	ATATTGCTAA	TAGAAATTAG
65041	TCGTTAACAT	CCCTAGATAA	CTAACTTTAT	TATTGCGAAT	TTTTCATAAC	TAAGTTTATA
65101	GTTTATCTCT	TCCCCTTTTT	AAAATTAGTT	CAAAGATATC	TAAAAATAGC	CCCAGTGGTG
65161	ATGAAGTTTC	TATTTTACTT	ACATATATAT	GTCCTGGACC	CCCAATTATA	ATCTCTAACA
65221	TTTATTGAGT	GCTTACTATG	TGCCAGGCCA	TATTCTGAGC	ATTTTGTATG	TTCACCTATT
65281	GATTATTCAA	TCCGTACAAC	AGCCTATGAA	ATAGGTACTC	CTATTATCCC	САТТТТАСАС
65341	ATGAGGAAAT	TGAGAATCTG	GGGATTTTAT	$CTC\DeltaTTC\Delta\Delta\Delta$	ACCACAGAGC	TAACCCTTCA
65401	AACCAGGCAG	TTGATATCCA	GAGCCCACTC	CCTTACCTCC	TACTCCAAAC	CAMCAMMMOM
65461	TTTCTTCTTA	TGCCCCGAGA	TTCCTTCTTC	TACCCAACTT	TACTCCAAAC	CAIGAIIICI
65521	CTTCTTCTTC	A CA CA TO COM	CACCAMCACA	COMOMOGRACIT	TCCTGTACTC	TTCTTGCCCT
65501	CITCITCCIG	AGACATCCTT	GACCATCACA	GCTCTCCACT	GAGATAACTG	TGTCCTGGGT
00001	TCTGAGACAT	GGGGGCTGGA	AGGGACCCCA	GGGACAGTGA	GCAGTAGGGA	GAGGATGCAG
65641	TGAGAACAGA	CCCTGGATCC	CCGGTGCATA	GGCAGGGAGA	AAGTGGACAA	AGGAAAAAAC
65701	AAGCAAGGCA	GGTGGAGCCA	TGCCTAGGTA	AAGTTGATCC	CTAAGCCACA	GTTCCCAGAA
65761	GTTCCTGATT	CAAAAGCAAA	TTTTCTCTAA	GGTCAAAGGG	CAAACTGATT	ATTCTAAATT
65821	CTAAACTGAT	TATTTCTAAA	TTGAGAAAGC	TTCAGGGAGA	GATCCCAATA	TTCGAAGGAT
65881	AAGAGAAATG	AGGAGTGGAA	GAGATAGGTG	AGTAACAGTA	ACTTAAATGT	AGACTATATA
65941	TAATATATAA	TATATGTAGA	GTATATATAT	ATAATTACAA	ΤΑΤΑΤΤΑΤΑΤ	ΔΤΩΤΩΩΔΩΤΔ
66001	TATATATTAT	TTATATATAT	ΨηΔηΔηδηνη	ΤΔΠΔΠΔΠΔΠΔ	CDTDTTTTTTTT	TIGIOGETIA
66061	ΔΨΔΔΔΨΔΨΔ	ATATTTTAT	ע הע ע הע ע הע ע הע ע הע ע ע	######################################	GUITIIII	TATITIMIAL
66121	Απασιατασ	CUNNAMACE	CUCADACAAC	TAMATATAGA	TATTTTTATA	TATATTATAT
66101	CCCVVVCCCV	GTAAAATACT	GIGAAAGAAG	AATAGAATCT	TGAGACCTCA	AATTCACTAT
00101	GCCAAAGGGA	AAGTTAAGCT	TGGGAAATGA	GTCATGCAAA	AACTGCCTTC	CTTTTGTTCC
00241	CAAATACCTG	TAATTTCACA	TGCTTACTTT	ATCTTATATA	AAATGTAGAT	GTACTGAGCA
66301	TGAGATCCAT	GCATAATTTC	CCTCTAGTCC	CTTCTTTTTA	CATGTAAAGT	GTAGACTCAC
66361	TGAGTGTTAC	AGAGCCTTGC	CACAATGTAA	ACACTTGTCT	CATTGCCAAC	CCATCTTTCG
66421	TTTATTTTCT	TCCCCTCCTG	CTTGCTCTTT	CCCCTCTAAA	GATGGAAGTT	CCCAAAACTC
66481	TCTTTGGAAA	AAGCGCAGGT	CACAGATCCT	ACAGTGATTT	GTGTTTCTTT	TACCTGGGAC
66541	AAAATAAACC	TCTAATCTGT	TGAGATATGC	TTCAGTTACT	TTTTGGTTTA	СУУТУТСТУС
66601	ATGTATGTAT	ATAATTTATA	ΤΟΤΑΤΑΤΑΔΤ	ΔΠΔΠΩΠΔΩΠΤ	CTTTTTAACCA	CACCHARCER
66661	ΑΨΨΟΔΑΔΑΨΟ	CATTCATCCT	TACAATTACC	TCCATTCTC	CACACMAMM	TOTAL COLOR
66721	TCCCCCCCAC	CHICAICCI	CARAMORCO	TGCATTCTCC	CACAGTATTT	TCTGTGTCCC
66701	TGCCCCCTAG	GTTGTCACTG	CAAATCAGGT	ACATGGATAC	TGGGAGCTGA	TGGGCTCCCC
00/01	COCCE	TGGGCTGCTG	AAGGGGCCAT	AGACAGACCC	AGCTTTCCTC	TCGTGGAGAG
00841	GCCCTGGGCC	AGCGCTGCGT	GGGAGTGGGA	TTACAACCAG	ACTATAGCTT	CTTCACCTGC
66901	TTTTTCCTAT	CAGGATTTCA	TAAGAGGCAA	TTGCTTGTTT	TTTGAGGGTG	GGGGCAAATC
66961	AGGGGGAGTT	GAAGAGGAAA	TTGGGTAAGA	TTTGAATAGT	TGGGCATGTT	GAATATTATG
67021	AATATCATCT	CCCTCTTCAA	ATAATCCAAA	ATATACCCCC	AAGAAACAGG	CTGATTAGAG
67081	GTGCTTCAAG	GCTCCACTGA	ATCTCCCAAG	CTCTGAAGAT	GTAGCTAGCT	GTTACCGGAT
67141	TGCCGGTTTT	CAAGCCTCGC	CTCACATGGA	CCCTCTTCCC	AGTTTCTCCC	ATECCECANC
67201	CATCCGCTAC	ATAGATGGGA	ATCADADGAC	CADACAACAC	CCTCCVVVCC	TIT GGGGGHAG
67261	CCGGTGTCTC	CCACCAGTGC		CHCYCCHCHC	ACCCMMCCMC	COMMUNICACIO
67321	CACCATCICIC	A A CTI CTI CTI CTI	TATTIMATOL	CACACCCCCC	ACCUTTUUTG	GUTTTATTGT
67301	V V C C V C M C M C M C M C M C M C M C	AAGTCTCTTG	CACCCCCCCCC	CACACCCTTT	AATCAGGCAT	CAAAGACTTT
67441	ACACACTCT	GCTGTGTGCC	CAGGCCCACT	CATTCTCACT	TTTATGGCAA	AGGGAGTGGG
0/441	AGACAGAGAG	ATAGCCAGAA	AGAAGAGATT	GGGGACCCCA	AGACAAATGT	TAGAATTTTA

67501	. ACCAAGGCCA	CCCTGTGGAC	AGGAGATTAT	TGGGTTTAGT	GGAAAGCAGC	ACTGGCCACA
67561	. ACCACACGTG	GCAAAAGCAT	CTATCGAGGA	GTGAAGTTAT	ATTTGGTGAA	TGTGACCGGG
67621	. AAGCAGGGGC	AGTGGTGTCC	TCCTGCCTTC	CTGAGGCACT	CTGTTCCCTT	ACCTCTGCGA
67681	AGGCTTATTT	TACCCCTGAG	TGCTTAGTTT	ΤΕΔΔΔΕΓΕΤΤ	ACTTCCCTCT	CTCCCATAAA
67741	AAAGCTCTAC	TCTGCTAACA	TCTAACTTAC	CTTTCCACAC	TOTTOCCTO	ACCCACCAAA
67901	TERICOTOTAL	CAMMOCA	TOTANGTIAC	CITIGCAGAG	TCTTAGGTAG	AGGGAGGAAA
67061	AAMAAAAAAAAAA	GATTCCACCC	TATCTGCAAA	ATACAAACAT	GGTATTTCTT	GCATTCCCAA
0/801	AATTGTGAAA	GAAAATGTGT	ATCACCACAG	TAGAGAATGG	CATTTTTTGT	TTGATCAAAA
6/921	CCTAAATATA	TTTGATGAAA	ATGTGTCTGG	TTCTAAGTTT	ATTTCCCAGA	AAGCCATGTT
67981	TACTCACTTG	GAATTTATAG	ACATCTTATA	ATATCTGAGT	CGAGTAGGAG	CTCCGGGCTC
68041	TACCTCACTC	TTTTCTCCCA	CACCCAGGGG	GAAGTGTAGG	GTTCTCAGAC	ТТТАСААТАА
68101	AGAGGAATCA	CCTGGACAAC	TCACCTAAAA	ТССАСАТСТТ	CACCTCTCAT	ACTCAGAGGC
68161	TCTGACTCAA	CAGGTCTGGG	TGGCGCCCAA	CAATTTCCCC	TTTTNNNTCNC	TATCHCACAT
68221	CDTTCTDTDTT	CAGAATGTGT	AACAMCACCA	CAMCCMAMCA	CACHEACARC	TATCICAGAI
60221	CCCCCACCMA	ACMMCCACAA	AAGAIGACCA	GATCCTATCA	CACTTAGATG	TATTGGCCTA
60241	A CCA CA A TITTE	ACTTGGAGAA	AATGTTAGTA	AGACCCCGTG	GTTGGTGCTC	AGCTATAGGT
66341	ACCAGAATTT	TGATCAAAAT	TTACTATCAT	TGTGACACTT	CTCTTCGGAA	CTGGAAGGCC
68401	AGAACCCCAC	TTGTAAAGTG	CTGGGAAAAT	ACAAGGAAAA	TTTAGGGTGA	GTAGCATTTT
68461	GAATTCTTAC	ACATGGAAAG	TAAATGTATA	AGAATTCTTA	CCAATAAAAA	AAAAGCAAGA
68521	GAGAATAGCT	GCTAAAGAAT	TAACACAAAT	ATGTATATAT	TAGTTATTCT	CTTTTCTCCT
68581	CTGATTCCAG	AGGACTTTGT	AATTCCACTA	ATTCTTCTTG	AGCTTCCAGG	ATGATCTGAG
68641	ACTTGAATTT	TTCATGTGCT	ТТТТССТТСС	ΤΑΤΤΤΟΘΟΔΟ	CATCTTATCT	TCAACTTCC
68701	GCTTTCTGCT	TGGGGACCTA	AAAACTAACT	7.7.T.T.T.T.C.C.T.T.T.T.T.T.T.T.T.T.T.T.	TOTTOTATO	CACCAAACEC
68761	TCCTCAATTC	CCAAAGCGGA	ACARACIAACI	CACCARGOS	CTCCCCCC	GAGCAAACTC
60001	TUCCUCA AUC	TRACCEGA CE	AGAAACAAGT	GAGGATCGGG	CTGGTTAATT	AAGAGAACTT
08821	TTCCTGAATG	TAGCCAGACT	GTTTGCCGAC	TGTTGTTAAC	ATGAGGGAAG	AAATACCCCT
6888T	GGATTTTAGA	AGAGCCCCTT	GTTTGTTTTC	CTTGGCCATT	TGTGCTGCTT	GTTTTGTAAG
68941	TCAGAAATTT	CCTGAAGGAC	TATTATTAGC	TTTGTTCTCA	CGTCAGAAAA	CTTCTGCTCT
69001	GGCCACTTTT	AAACATATAA	CTTGGATTTT	ACTGTATTAG	AAAATGTAAC	AATTACAGAC
69061	AGCACTAAAA	GGACACCAAA	GGGCAAAGAA	AATGGGTAAC	ТТТТТТТТТСТ	TCCCCAAATC
69121	TAAAATAGGT	GATTTTGGAG	AAGTAGGAGA	AAAACCTGGA	ΨΨΨΨΟΨΑΘΑΨ	CTCTTTAGAG
69181	CTCAACAACT	GATATAGTTA	ΔΤΤΔΤΩΤΑΤΑΤΑ	TCTTTCATAT	TTTTCTACAT	THECOMMAN
69241	CCCATAACAA	TGAATATTTA	ATTAIGIAAG	TUTTIGATAT	1 I GGAAAI GA	CARCOCRERA
69301	ATCCCACCAG	TURATATITA	MATACAGIGA	111GGCCAGG	AGCAGTGGCT	CATGCCTGTA
69301	AICCCAGCAT	TTGGGGAGGC	TGAGGCGGGT	GGATCACCTA	AGGCCGGGAG	TTCCAGACCA
69361	GCCTGGCCAA	CATGGTGAAA	CCCCATCTCT	ACTAAAAATA	CAAAATTAGC	CAGGCGTGGT
69421	GGTGCAAGAC	TGTAATCCCA	GCAACTCGGG	AGGCTGAGGC	AGGAGAATTG	CTTGAACCCG
69481	GGAGGCAGAG	GTTGCAGTGA	GCCAAGATCA	CGCCATTGCA	CTCCAGCCTG	GGCAACAAGA
69541	GCGAAATTCC	ATCTCAATAA	ATAAATAAAT	AAATACAGTG	ATTTAACACA	AGAGATTTCT
69601	ATTTCACACT	AATGAGCTCT	GTCACTGGGG	CAAGCTTCTT	TGCCTCATTA	AGTCTCAGAT
69661	TTCCCGAGAG	CTTATTTATT	TATACCAAGA	GTGCTTTACT	ACCGTCTCTG	CTAGCTCTCA
69721	CATAATATGA	CAAAAGGTAT	ΔΑΔΤΑΤΩΘΟΙΑΙΟΙΙ	AAACCCACTA	AUTOTOTOTO	AACCCUUCUU
69781	CCTTTTTTCCT	TGCTGTGAAG	TATALA COM	AMARAGOCACIA	ATTIMIMICA	AAGCGTTCTT
60941	TCTTTT CT	CCAMCCCCCM	CCCACTTCA	ATAATTCATA	AGAATATACC	ATATTTAGAG
60001	CARACCERCA	GCATGGGCCT	GGCACTTCAC	ATACATTGCT	TCTTACAAAT	TTTACAAAGT
69901	GAAAGGTAGA	TATTAATCTC	ATTTTATGGA	GGACAAGATA	GAGATCTGGA	GAGGTTACAT
69961	AACTTGCCAG	TGTTTTTTCA	GTTAATAAAT	GGTAGGGTGG	AGATTCAATC	TGTGTTACTC
70021	TAAAGTCCGT	GTCCTTTTTA	TTGGCTCCAT	GCCTACTCAG	ATTTAAATCT	CAGCAGGGAA
70081	GTAAACCTTA	GTTTTTACAT	GAGAAAATGT	TACAGCAGCC	TTCTCGGCTT	CCTTTACCCC
70141	CATCCCAGTT	TCACGAGCTT	AGTGCCTTAG	ATCGGGTTCC	TTTAGAAGCA	GACCTCGAAA
70201	TAAGGATGTG	GGTGCCAGTC	ΑΤΤΤΑΤΤΟΔΑ	AACATCATCC	CAAGAAAGCC	TACTACCACA
70261	GTGAGGAAGT	GAGATGGGGA	ANCCANCANA	CTCCACAACA	A CTI CTI CTI TA A	MAACCACCEE
70321	ACCGCTCTCC	CCACCCATCC	CCCTCACCTC	CICCACAAGA	AGIGIGITAA	TAAGCAGGTT
70321	CTCACCCTCT	GCAGCCATGG	CCCCAACAAC	TOTO CONTRACT	CTCTGTCTAG	TACAGAAAAC
70//1	TCACTCCCTC	CCCCAAGGAG	GGGCAAGAAG	TUTGUUTAGG	GTATATATCC	GCCAACTCAG
70441	TCACTGGCTG	AGAGCTGATC	CTGGGAGGGC	ATGGTTAATT	CCTCTGCACT	TTCAAGTGGA
10201	TTCCTGTGGT	CAGAAAAAGC	CCTCTACAAT	GAATTCCAGA	TGCTTGTATT	TAAATCTGAC
70561	ATGATCTGAA	TGCTGTGTTG	GGACAGGGTG	GGCGTTATTA	GTTTTCTGTC	ATTACTGTAA
70621	CAGATTACTA	CAAACCTGAT	GGCTGCAAAC	AACACATATT	TATTATGTCA	TAGTTTGTGT
70681	GGGTCAGAAG	TACAGGTTAG	CTCAACTAGT	TTCTCTGCTC	TAGGTTTCAC	ATTGCCAATA
70741	TCAAGGTGTC	ATCCAGTTGG	GCTCTTCTTG	GGAGGCTTGG	CCATCAATCC	እርጥሞምር አአርር
70801	TCATTCAGAT	TGTTGGCAGA	ATCCAGTTCC	ТТСТССТТСС	DCCDCCVVCC	TCCCTTCCTTCC
70861	СТТССТСССТ	GTTGGCCAGG	ACTIONATION	ACCEMCENACA	CACHACCARGG	A CTT CTT CTT CTT
70021	TCCTCTCTCTCT	OT TOCCCHOO	TOT CALLCIT	ACCCCCCT	GACTACCTGT	ACTUTUTGAC
70001	TOGIGICICO	ACTTCACCTT	TCAAACCAGC	AGCGGCTAGT	CGAGTCCCTC	TCTTCAAATG
70981	TCTCCAACTG	TGCCTTCACC	TCATTTCTCC	TCTGTGTACC	ATGTCTGCCT	CTACTGCTTG
/1041	TAAGGGCTCA	TGGGATTACA	TTGGATTTAT	TCAATCCAGG	ATAATCTCCA	TATTTTAAGG
71101	CTAGCTGACT	AGTGATCTTA	ATTCCATCTA	CAAAGTCCCT	TCCAATAGTA	CTGTATTAGT
71161	CCATTTTCAT	GCTACTGATA	AAGACATACC	CAAGACTGGG	CAATTCACAA	AAGAAAGAGG
71221	TTTAATTAGA	TTTACAGTTC	CACATGGCTG	GGGAAGCCTC	ACAATCATCC	CAGAAGTCAA
71281	GGAAGAGCAA	GTCATGTCTT	ΑΓΔΤΑΚΑΤΩΟ	CACCACCCAA	VEVEVEVEVEVE	CHACACCICAM
713/1	CAACTCCTCT	TTTTAAAACC	74C7C7UCUC	ATAAMACTE	TORUMUNDAUA	CITCIGCAGG
71/01	ATCCCOTCI	T I I I I I I I I I I I I I I I I I I I	MCAMMCAAM	ATAATACTTA	TICACTATCA	CAAGAACAGC
71401	CCAAMMONAC	CTTGCCCCCA	IGATTCAATT	ACTUCCACCA	GGTCCCTCCC	ACAACATGCA
71401	GGAATTCAAG	ATGAGATTTG	TGTGGGGACA	CAGCCAAACC	ATATCAAGTA	CCTAGATTCA
11251	TGTTTGATTA	AACAACCAGG	GAGCAGAAAT	CTTCAGGAGT	GGGGGGCATC	TTTAGAATTC

71581	. TGCCCACCA	GGCTGGGCGC	GGTGGCTCAC	ACCTGTAATC	CCAGCACTTT	GGGAGGCCAA
71641	. GGTGGGTGG <i>P</i>	TCATGAGGTC	AAGAGATCGA	GACCACCCTG	GCCATGGTGA	AACCCCATTT
71701	. CTACTAAAAA	TACAAAAATT	AGCCAGGTAT	GGTGGTGGGC	ACCTGTAGTC	CCAGCTACTC
71761	. AGGAGGCTGA	GGTAGGAGAA	TCACTTGAAC	CCAGGAAGCG	GAGGTTGCAG	TGAGCCAAGA
71821	. TTGCGCCGCT	GCACTCCAGC	CTGGGAGACA	GAGCAAGACT	GTCTCAAAAA	ΔΑΑΑΘΑΑΤΤΟ
71881	TGCCCATCAT	AGTAGGCTGT	CCTACAGAGA	CATAACCCAG	CAATTACCTC	AATGCCTAAC
71941	CTAAATTAGO	ACTGTGATGT	CTTTTTCTCAC	TTCCTCCTT	TACCTCCTC	CCMMACAMCM
72001	CCAACTAATC	CAMCAAMCCA	ACCCERMENCE	TIGGICCIIA	AGECTECTET	GCTTAGATGT
72001	ACMACIAAIC	CATGAATGCA	AGGGTTTGTC	TAGAGTTTTA	AGTGGGAGTT	AAATATCCAA
72001	AGIACAGGAG	ATATTATGGG	TGCCTCATCC	ATGTCCCCTT	GGCATTTATC	TTTCTTGGAT
/2121	. AACCCAACTC	TATTAGTTTT	TATATCTCAC	TTGTTCCTAT	ACTCTGTGAA	CTGATGTCCC
/2181	ATAAATAGAC	ATTTCATTTT	GCCAGTCTTC	TTGAACAATA	ATTACGATTA	TTAATCTAGC
72241	AGTTATCATT	AATTGGCCAC	TTCACATTAG	ACACAGCACT	TAGGACTTAA	GAATACCATG
72301	TCATTTGATC	ATCATAATAT	GGTCAGGAAT	TAAGTATTGC	TATCCAAATT	TTACAAAGAA
72361	GGCACTGAGG	GTTAGAGTTT	AAATAACTTG	CTTAAGATGT	CATAGCCTGT	ΑΑGΤGΑCΑΛΑ
72421	ACTAGGACTO	AAATACAGGT	CCATCTGACT	CCAAAGTCTA	TGTTCTTGGC	TACCACACTC
72481	CCTCTCCTAC	AAGTGACCTG	ΨΕΕΨΨΨΨΔΟΨ	ΔΟΤΔΠΔΤΤΟΙΟΙ	CACTCTACTA	A COMONIA COAM
72541	CTCCCATGAG	TCTGTCTAGA	GCAGGGCACA	CACACCACAC	AAAACACAMC	ACITIACCAI
72601	AAGGAAGGGG	CTACTTACTA	CACACACCCA	UNCHOCACAG	MANACACATG	AATGCAAAAT
72661	THUSANDOSC	A A MILLA CHILLO	CACAGAGCCA	TTCTAATACC	TGATGTTTGC	TCTAATCCAG
72001	1111ACIAII	AATTAGTTGC	TGGTGCCCAA	GTTTTTACTG	AGAAATGGGG	ATAATTTTGG
72721	AAGTCATAAT	GATGCCTTCT	TCTCATAGGG	TATTTTATTT	GTTGTTGTAT	CTCCAGGCCC
12/81	CAACACAGCC	TGGCTTTTAG	TAAATGATCA	AAAATACCTG	TTGAATGAAT	AAATGGAGTC
72841	ACCTGAAACA	TGTTAAACAT	TTGTTCATGT	GTCCTAATCG	TGGATTTCAG	GATAGTAAGC
72901	ATCCTAAAAG	GAAAGCATGC	ACACTGTTCT	TGCTACATTA	ATTTCTCACA	ATATAAAAAA
72961	AGAAAAGCAT	CTGAAAAAAG	CTGCCAGCCG	CTGTGTCTCC	TAATATCAAA	CTGAGCACAG
73021	ATATGGAGAA	GCTAAGGGAG	AGGGATGATG	GGCCATGCCT	СТААССТСАТ	CATGGCAAAA
73081	GTCCTGGGGG	TCAGACCCGA	GGAGAGCAGG	AAGTGTCTTT	TCACCCATAC	ATTTCCACAC
73141	TGGAAATAAT	GAGACTTAAA	ΤΔΔΑΤΔΤΙΟΟΙ	ATACACACTT	CAACTCTTTT	TATITICE ACAG
73201	GGTAGTAGGT	TTTCACAGTA	ACCAACCACT	TINCACAGII	THE CHARLES OF CARCAGO	ACACACRORO
73261	CCTCTCTCTC	CCAGCCTGGA	CTACACTCCT	CCMAMOROGO	OTTOTATIONS	ACAGAGTCTC
73301	CTCCATTCA	CECAGCCIGGA	TO COME TO CO	GCTATCTCGG	CTCACTGCAA	TCTCTGCCTC
72201	CIGGATICAA	GTGATTCTCC	TGCCTCAGCC	TCCCGAGTAG	CTGGGACAAC	AGGTGTGTGC
73381	CATTACACCT	GGCTAATTTT	TGTATTTTTA	GCAGAGATGC	GGTTTCACCA	TGTTGGCCAG
/3441	GCTGATCTCG	AACTCCTGAC	CTCAGGTGTT	CTGCCCGCCT	CTGCCTCCCA	ATGTGCTGGG
/3501	ATTACAGGCA	TGAGCCACTG	CACTCACCAA	GCACTTCTAC	TGATAGCATT	TACAAACCCT
73561	TCTTAGAATA	TTTAAAAATT	CTAAGAGAAG	AGTAAATTGA	GCCTTCCCAA	CTAATACTAG
73621	GAGGTTATAA	CCTTCATACC	AAAACTGGAC	AATGCTTGCA	CAAAAGAAGG	AAGCCAATGA
73681	GGCCACCTAG	AAGGAAGACT	GGGCATTGGG	CCCAGTGAGT	CCTGGAAACC	TCATCTGTGC
73741	CAGCCACCC	GGCATGGCCT	GTATGAGTGG	ATGAGGGTGA	CTTGTCCACA	GACAATAGCC
73801	ATCTAGCTGT	GATAAAGGAG	TCAAGGTAGT	CAGCTGCATC	TCTTTCACCT	CTTTCCCAAT
73861	GTTACACAGG	TTGAAAAGCT	AAGGTTTATG	TAAAGCAAGC	ΔΤΟΔΑΔΕΔΤΟ	ATCAAATCAT
73921	CAACCTGACA	ATGAGTACTA	TECTECATTE	TCCACAAACC	ATCAMAGAIG	CAMMMMCCCC
73981	TGAATTTCAA	AACAGAATTT	CCTCACTCTC	TCCAGAAAGG	CUMPACHECCO	GATTTTGGGC
74041	CAGAGGTGGT	GCCTTTGTGT	TCTCACTCTC	TGGAIGIIGG	CITACTIGGC	CTTTGATGTT
7/1011	ANACCCACAA	COCTITUE	TGTTGAACAA	TGTTGATTTT	GGAGAGAAAA	CAGAGTTGAA
74101	CACCARA	GTCATTCCCT	GGGGAGTATT	ACCGGAATAC	AGAGGATAAT	TTCAGCAAGC
74101	CAGCAAGGCC	TCATCTCTGC	TTCTAATAGA	TAGGAAGAAA	GGAAGAGAGG	AACAATACTT
74221	TTTTAAGAAG	CTCAGCTTTA	TCGCCTTATC	TCATAGAAAG	ATGCCTCCAG	TCTGTCTGGC
74281	TAAAGGTAAT	TGGCATGGGA	AAGTCTTTAT	CTGTGATTCT	AACAAGTGGA	ATGTTTCCCT
74341	TCATTAAGAG	AGCCTTGTCT	GGCTTGGGGA	AATGAAACAC	TTTCTCCGAT	ATGAGTGGGC
/4401	TGTAACCCCT	GCTACTAAAT	ACTCAGAAGA	AATAAGGCGG	TTGTGGAGCA	GTCAGGAATG
74461	AGTCACTTGC	CTCCCTGGAA	TATTCAGAAA	ACTGAATCAA	AAGTACATTC	ТТСТСССТТТ
74521	TCTTAGTCTA	ATAGACTAAG	GGTCTCTACT	TTGTTAAATT	TCTGGGAAAC	ΑΓΡΑΤΑΓΑΤ
74581	GGGAGAAAA	ACTGGTCACT	GTAGTCATGC	AAATCTGCAA	AACAAACAAA	AAACTCTCCC
74641	TATTGCTGCT	AACTAGCTAT	CTCACCTTAA	CCAACCTATT	A A COLCORODO	CARMOTCIGGG
74701	ፐጥርጥጥር አጥርጥ	GTTAAATAGC	አጥአጥርጥርጥአ አ	AATTCCCAATTT	AMMUNICATION	GAATITCAGG
74761	TACCTUTANA	GIIMAMIAGO	ATAICIGIAA	CAMBAGGAAII	ATTITCATAT	CATAATGCTG
74001	TAGCIIIAAA	AAATAAAATA	AAATGGATGA	GATAATCAGA	ATTAAAGAGC	CTGGGATATA
74041	TAGITAATAT	ATAGCAGCAT	GTAAAGATCC	TGTTAGAAAT	GCTAATTTTA	CAGTTAACCA
74881	TTTGGAGATG	ATCCGCCAAA	GCTGCTAGTG	TAGAGGCAAC	TGAGAATTTG	CCTGTCCTTC
/4941	AGAATATGAA	TAAATAACTG	TCAATGATGT	CTCAAGCCTA	GAAAAACCTA	TCCATCTGGA
75001	TGGGTGGGAA	ATTTCTAGGC	TAGTATTGAG	AAGCCCATTT	CTTGGGAAAT	AGGTCCTGGA
75061	CTGAGTGAAG	GAAAAGAAAC	AGTAAAACCC	ATGGTAAAGC	AGCAAGGCTC	TCTAGAGGCT
75121	CTGGAGAGGA	TGAATTGAAT	TCTAGAAGAT	GAAGTAGGGA	AGACGCTTTA	CCTTCTTGTG
75181	AAATGGATTC	AAAGATTCAA	AGACCTTCGG	GAATCTCCAA	ΤΤΓΓΙΑΤΑΔΑΤ	GGCACCATAG
75241	CTGTATGTTC	CATGGAACAC	TACTTCCCAC	AGATGCCCAG	TCDDDDDDDC	DUCCCOUTEG
75301	CAAATAAGTT	TGGAAACACT		CCCVCCACCA	TCVVCACACACA	AAMCCACAMM
75361	AGCATCTTA	ACAGTCTTGA	CONTINIETO	ACACCACTACT	TOAAGACTCT	MATGCACATT
75421	CCCCACMMMC	CCAADADACA	TCAMBATCCTGC	MAGUAGAAA	TIGUTTCACA	TCTGCTAAGC
75401	TATICOTTO	CCAATATACT	IGATTATGGA	TAGTTTTTC	CTTACAACAC	CATTCTCTGA
13481 75541	IAIGUTTUCA	ATGACATGAA	ATAAATATAT	ATGCATGAGG	TTCTTCATTA	GGGCATACTT
75341	TTAATAGAA	AATATTGAGA	ATAATCTAAA	TATAAATGCA	CAGCATTTAC	CTTTTCTGCA
10001	TAAACTATAT	ACAGGCATAC	CTTGGAGATA	CTATGGGTTT	GGTTCCCACA	ATATCTCCAA

75661	AACCACATTC	GGTTTTATGA	CCACTGCCAT	AAAACCAGCC	ACATGAATTT	TTTGGTTTCC
75721	CAATGTATAT	CAAAGTTACA	ТТТТТАСТАТ	ACCATAGTCT	Δηγανανανα	$C\Delta\DeltaT\DeltaCC\DeltaTT$
75781	ΔΠΔΠΩΠΩΛΛΛ	AACAACGTAA		mma accomom	CCCMCCMMMC	AMMMMOMAGO
75701	CICICIAAA	AACAACGIAA	ACACCITAAT	TTAAGGCTGT	GGCTGGTTTG	ATTTTCTACC
/5841	CAGACCACTA	AAACTTTCTT	CATATCAGCA	ATAAGGCTGT	TTCACTTTCT	TACTATTTT
75901	TGTGATAGCA	CTTTTCCTTT	CCTTCAAGAA	TTTTTCCTTT	CTATTCACAA	TTTGTTTGAT
75961	ACAAGAGGAC	TAGATTTTAG	CTTATCTCAG	TTTAAGGTGT	TTACATTGTT	ΑССТАΔΑΔΑΤ
76021	CCTAATCATC	ATCTGAGACT	TCACCAACTC	A TO A TO COTOT	CCTCCTCCAA	CCTCTTTCCCT
7.0021	CACHCHHOATC	ATCTGAGACT	TCAGCAAGIC	ATAATCITTI	GCTGGTGGAA	GGTCTTGCCT
76081	CAGTGTTGAT	GTCTGCTGAC	TGGGTGGCTT	TGGCAATTTC	TTAAAGTAAG	ACAACAATCA
76141	AGTTTGACAT	ATCAATTGAC	CCTTCCTGTC	ATAAATGATT	TTTTTTTTCT	CTGTAGCCTG
76201	CAATGCTCTT	TGATAGCATT	TTACCCACAG	ΤΑΚΑΑΤΤΤΤΟ	ΔΔΔΩΤΤΟΟΔΟ	ጥር አ አጥር ርጥጥጥ
76261	CAAACTCTCC	TGCTGTTTTA	mca a cma a cm	THOIDITITIO	UMD CARAMOO	COMMICCITI
76201	mmmca a a a a a	COMMONOR	TCAACTAAGT	TIAIGGAGIA	TTAGAAATCC	CTTGTTGTCA
76321	TTTCAACAAT	GTTCACACCA	TCTTCCCCAG	GAGTATATTC	TACCTCAAGA	AACCACTTTC
76381	TTTGCTCATC	TATAAGAAGC	AGCTCCTCAT	CCACTAAAGT	TTTATCCTGA	GATTGCAACA
76441	ATTCAGTTAC	ATCTTCAGGC	TCTACTTCTA	ATTCTAGTTC	ጥርጥጥርርጥርጥጥ	ጥርጥልጥርጥርልጥ
76501	ΨΨGΨGCΨΨΔC	TTTCTCCGCT	CNACTOTION	ACCCCMMAAA	CTCACTCATC	ACCOMMODAN
70501	TIOIOCIIAC	1110100001	GAAGICIIGA	ACCCCTTAAA	GICACTCATG	AGGGTTGGAA
10201	TCAACTTCTT	ACAAACTCCT	GTTGATGTTG	ATATTTTGAC	CTGCTCCCAT	GATTCATGGG
76621	TATTCTTAAT	GGCATCTAGA	ATGGTGAACG	TTTTCAGAAG	GTTTTCAGTT	GGCTTTGCCC
76681	GGATCCATCA	GACGAATCCC	TATCTATGGA	AGCTATAGAT	ттатаааатс	ጥ Δጥጥጥር ጥጥጥጥ
76741	тттстссссс	CATAGCGTCT	CACCCTCTCA	CCCAACCTCC	A A TO COA CTO C	CACACHCAHA
76901	A CECA CECA A	CAIAGCGICI	CACCCIGICA	CCCAACCIGG	AAIGCAGIGG	CACAGTCATA
70001	ACTCACTGAA	GACTCAAACT	CCTGGGCTCA	AGTGATTCTT	CCACCTTGGC	CTCCCAAAAC
76861	ACTGGATTAC	AAGCTTGAGC	CACTGTGTCT	AGCCCAAAAT	GTATATCATA	ACTAATGAGG
76921	CTTGAAAGTC	AAAGTGACTC	CTTGATCCAT	GGGCTACAGA	ATGGACGCTG	GGTTACCAGA
76981	CATGAAAACA	ATACTCATCT	CCTCATACAT	CTCCTTCACA	CCTCCTCCCT	CACCACCCCC
77041	Value of Targott	CVCCVCMVCM	AMCMMCAAAA	D D D D D D D D D D D D D D D D D D D	TOTOLIGGET	TAGCAGGCCC
7774I	ATTGTCAAAT	GAGCAGTAGT	ATCTTGAAAG	AAATTTTTTT	TCTGAGCAGT	AGATCTCCAC
11101	AGTGGACTTA	AAATAGTCAG	TAAACTATGC	TGTAAACAGA	AGTGCTGTCA	TCCAAGCTCT
77161	GTTTTTCCAC	TGATAGGGCA	AAAGCAGAGT	AGATTTGGCA	TAATTCTCTA	GGGCCTTAGG
77221	ATTTTTGGAA	TGGCAAATTG	AGCATTGGCT	ΨΟΔΔΟΨΨΨΨΨ	արարարարարարար	T
77281	ΔCΔGΔGTCTT	GGTCTGTCAC	CCACCCTCCA	CMCCACMCCM	CCAAMOMOOC	CCCTCTCCTT
77201	COMOMOTOTI	GGICIGICAC	CCAGGCIGGA	GIGCAGIGGI	GCAATCTCGG	CCCACTGCAA
7/341	GCTCTGCCTC	CTAGGTTCAC	ACCATTCTCC	TGCCTCTGCC	TCCTGAGTAG	CTGGGACTAC
77401	AGGCACCCGC	CACCATGCCC	GGCTAATTTT	TTGTATTTTA	GTACAGACGG	GGTTTCGCCA
77461	TGTTAGCCAG	GATGGTCTCG	ATCTCCTGAC	CTCGTGATCC	ACCCGCCTCG	GCCTCCCAAA
77521	GTGCTGGGAT	TACAGGCGTG	ACCCACACCC	CCCACCCTCT	CTTCAACTTA	A A CTI C C C C A C
77591	CTCTCTTACC	CTCTTOCCTO	ACACMOMOGO	TCTCCCTG1	CITCAACITA	AAGICGCCAG
77501	CIGIGIIAGC	CTCTAATAAG	AGAGICIGCC	TGTCCTTTCA	AGCTTTGAAG	CCAGGCATCA
//641	TTCTCTCTC	TAGCTATGAA	AATCTTAGAT	AGCATCTTCT	CCCAATAGGA	AGCCATTTTT
77701	TATGCCCTAA	AAATCTGTCG	TTTGGTGTAG	CCACCTTCAT	CATTGATCTT	ACCTAGATCC
77761	GCTGGATAAC	TTACCACAGT	GTCTACATCA	TTACTTCTGC	TTCACCTTGC	ΑСΤΤΤΤΑΤΩΤ
77821	TATGGGGATG	GCTCCTTTCC	ጥርጥል ል ርርጥር ል	TANACTANCC	TCCACTACCC	TCACATTICE
77001	CTTTTTTACACC	TITO COLC COM	CECENTALOUGH	TAMACIANCE	COACIAGO	TCACATTCTT
77001	CITITACAGC	TTCCTCGCCT	CTCTCAGAGT	TCACAGAATT	GAAGAATGTT	GGGCCTTGGA
//941	TTACACTTTG	GTTTAAGGGA	ATGCTGTGGC	TGGTTTGATT	TTCTATCCAG	AACACTAAAA
78001	CTTTCTTCAT	ATCAGCAATA	AGACTGTTTC	ACTTTCTTAC	TATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	GATAGCACTT
78061	TTCCTTTCCT	TCAAGAATTT	ͲͲϹϹͲͲͲϹͲ Λ	ΤΤΟΔΟΔΩΤΤΤ	CACCCTTTCA	TATCACACCC
78121	CTACATTTTA	GCCAATCTCA	COURT CACCA	TCCCCTTTTTT	A COURT A COURT	IMIGAGAGA
70121	CINCALLIA	GCCAATCTCA	GITIACACCA	IGCCTTTTC	ACTAAGCTTC	ATCATTTTAG
19191	CTTTTTATTT	AAAGTAAGAT	GTGTGACCCT	TCCTTTCATT	TGAACACTTA	CATGATGATG
78241	CCTGGCTTCA	AAGCTTGAAA	GGACAGGCAG	ACTCTCTTAT	TAGGGGCTAA	CACAGCTGGC
78301	GACTTTTAAG	TTGAAGCCAA	TGCTCAATTT	GCCATTAGAA	GCCATTGTAG	$CCTTD \Delta TTD \Delta$
78361	ጥጥጥርCCጥል ልጥ	TTTAATATTA	TCCTCTCTCT	CCCAATAACC	ACCCCMCACM	ACACCCACCC
79/21	ACATICCCCA A	ACACCCACEC	AMORGACORG	202AATAADD	AGGCCIGAGI	AGAGGGAGGG
70421	MUATUGUGAA	ACAGCCAGTC	ATCAGAGCAC	ACACAACATT	TATCAATTAA	GTTTATCACC
78481	TTGAGGGCAC	AGGTCATGAT	ACTTCAAAAC	AATTACAATA	ATAAAATAAA	AAATCATTGA
78541	TCGCAGATCA	CCATAACAGA	TATAATGATA	ATGAAAAATT	TGAAGTATTG	TGAGAATTAC
78601	CAAAACGTGA	CACACAGACA	CAAAGTGAGC	АСАТСТСАТТ	GGAAAAGTCC	TCCTCATACA
78661	COUNCOUCAU	CCACCCMMCC	CACAAACAC	CARCOCCATI	DUIDAMADU	TGCTGATAGA
70701	CHACCITCAL	GCAGGGTTGC	CACAAATACT	CAATCTGTAA	AAAATTCAAT	TATCTACATA
18121	GTACCATAAA	AACAAGGTAT	ACCTGTTTAT	ATAATCAAGA	CCAACAGAAC	CCTAGAGAAA
78781	ATAGCTCACT	CCCTAGCTCG	GAGACATTCT	AACCAACATA	CACTTACCTT	TCTTTTTGCT
78841	GTGTACAGAA	TTCAAATCCC	TGTCTCAGCA	AAATTGCAAA	GTATCAAATG	$TC \Delta TC TC CC \Delta T$
78901	$CTD\DeltaTDCTCD$	AAACTGCAAA	TOTOTORION	TOTALCOCCA	CACACCACTAC	MAMAMA CAAC
70061	TOTOLOG TOTOLOG	ACCAMMA COM	TGI IMAGICI	TGIAAGCCCA	GAGACCACTG	TATATACAAG
70901	IGIIGCIAIA	AGCATTAGTT	CTTCTCCAAA	GAAAATAGTC	CACTTGGTAG	AAACAAACAA
79021	AAAGAAAAA	AAAGAAAGAA	AAAACATTTT	TTACAAGAAG	ATTCAGTCTC	TTACCTACAT
79081	AAGCAAAAAT	ATGAGATGTT	CTCTTATCAT	TTTTCCATCT	ATCTTATAAT	СТТТССТССТ
79141	GACTTAGACA	CTCATTTTCC	ጥጥጥጥርጥልርር	ጥር ነር	λλλοππολλο	TCVVCVVVV
70201	Childran	CYMMMCMMM	COMCIONA	CCCMCCCAIGIA	DAMOIICAMG	CAMGAAAAA
12201	CIIGIITGA	CATTTGTTTT	GCTGAGTGAT	GGGTCCCTAA	AAGAAATTTG	GCTTTGCTTT
79261	TGAAAAGTTC	AGCATGATAT	TGTGTGAATT	TTTCATGGCT	AATGATTTTT	AGAACAGTTG
79321	TGATGTGTTT	AGGTGTTTTA	AGAATATGAA	GCATTCAGTG	GTTTAAGTTG	GTTGTTATAA
79381	AATGAAAGAA	TATGAAGGAA	AGCCTTCTTG	ΤΩΤΤΑΘΑΑΓΑ	CACTGATTCA	CDDDTDDCCD
79441	CCTTCTCTCN	AAATGTTGTA		TOTTHORNON	Y Y III Y II	A CONCOURAGE OF
70501	CCMCCMAMC	AMAIGIIGIA	AT TACAAAAA	ITCCAAGGCA	AATATAATAA	ACTCCTTGTC
/920T	GGTGCTATGT	CTAGAAACTT	AACAGCCCCA	AAGAAAGTCC	TGACAAGGCA	AAAAATATAT
79561	ATATATATAC	AAATTGTGGA	AGCAGGGTGT	TGAAAGAAGA	ATAAAGACTA	TATAAGGACA
79621	AACTGTTTAA	AAGGGAGGGT	ATCCTTGAAA	GCTTGACACT	TGACTCTTTT	GACGAGGCTG
79681	AGGGAAAACA	CTCAGTTTCA	TAGATTCCTC	CTACCCATCT	עסשטעשעעעעע	CVACCCONNUN
				CINCOCAIGI	. www.ingigh	CALCCCIAIA

79741	. GAGAGGAATT	' TGGCAATATC	TAGCAAAAGT	GCTTATGCAT	TTATTCTTTG	ACCTAGTAAT
79801	. CCCGCTTCTA	GGATTAGTGG	TGAAGATACA	CCTCAACAAT	AAAAATATAT	ATACATTAGG
79861	TTATTAGTTA	TGGTTTAATT	TTTAATAGCA	AAATATTTAA	AACAACCTAC	ATGAACAAAT
79921	AGGAGACTTA	CTGAATAAAC	ТАТССТАТАТ	СТСТАСААТА	ΔΔΩΤΩΟΔΙΙΟ	CACTTATCTT
79981	GTTAATTTGT	TCCAAAAATC	CACACCCAAA	CACTATTTC	TATOLOCARIL	CACITAIGII
80041	. OTTANTITOT	T C C T T T T T T T T T T T T T T T T T	CMCCAMOMOM	UMGIAITIGI	TAIGCICICI	TTAGTATAAG
00041	MAADDDDDAAA	TAAGATATGT	GIGCATCIGI	TTATTTTTGT	GAAAATAAGT	ACAGAAAGGA
80101	TAAGTAAGAA	ACTAGTAAAA	CTAGTTATCT	CCTAGTGTTA	GTAGAAATAG	AATGAAAGTG
80101	AATTAGGCTT	CTTTGAGTAT	ATGTTTATAT	ATAGTTTTGA	CTTTTGAATT	ATGTTTATGT
80221	TTACATAGTC	AAAAATATAA	ATTAATCAAC	AGAAATAACA	AAAAAAGAAG	AAATCACAAG
80281	CTTTAAAATT	TAATACAAAC	AGAAATAATT	GAATCTAACA	GTATATCAAA	GTGATAACGT
80341	AAACTCAGAA	GAAAAAAACA	ΤΑΑΤΟΟΑΛΟΑ	TACCAGTGGA	$\Delta \cap \Delta \cap$	CTAACTCTAT
80401	ΔΟΔΨΨΟΔΟΨΟ	GTTATAGTCT	AACCACAACA	AAAAMMCCAA	ACACAMIMI	CIMACIGIAI
20461	TOTACOATION	GIIAIAGICI GENERALE	AAGGACAAGA	AAAATTGCAA	AAATATCTTG	AACTTTAGCT
00401	TGIAGGAIII	TTATTGGTAG	CAATACTAAT	GTACTAATTC	TGAAATTAAT	GTTCGTGTAT
80521	TATAGAATTG	AGTAAATGAA	TAAATATGTT	GATGTTATTG	GGAACTAAAA	TTATCATTCT
80581	GGGAGTAGAG	AAATATAAAT	ATGGACTTGG	CAAATGAAAC	AAAGACCTGC	AGAGAGATAA
80641	CCATATAAAC	TCATTATTTT	AAAAATTATA	AGTGTCCTAG	CTCTGTTACT	GAAAAGGCCT
80701	AGATTCAATC	TTATCTTGAT	AGACAGGAGG	GCACCCCTTT	CTCAGAACAT	$CCTTTCC\Delta\Delta\Delta$
80761	TGCCATTCTC	CATTAAAAGG	AACAAGGTCT	TCTTCCACAA	AACACTCATT	CENCCECEC
80821	ለጥጥስ <i>ር</i> ርጥል አል	GTACAACGTT	ACCOMOCON A M	TELLIGORGA	AAGACIGATI	CIAGGICIGG
00021	MANIDONIIA	GIACAACGII	AGTCTGGAAT	TTCTTGCTGA	ATCAGAAGTA	AGAAAGTGCT
00001	CAAAAACATG	GGAACATGTC	ACAAACACAC	GTGAGGCAAC	TTGAATCCTC	ACTGGCCATA
80941	TTTAGGACAA	TCGAGCATCA	AAAAAAAAA	AAATGTTGAG	AATAATGGAT	TCTAACACTT
81001	AAAACAAAAA	ATAATCCATA	GCCCACAGAA	GGGGAAGAGA	GGGGGAGCTC	TTATTTACAG
81061	ATGAATATCA	AATAGCAAAG	ACAGAAGAAA	TGACAGAATT	AGAGAAACAT	CATTTTCCAA
81121	AACACCACTG	TAATAATCAA	TTCAGGCAAG	ΤΔΠΠΩΠΠΑΠ	CCATCTATTA	CTATTCCCTA
81181	AAACCAGTTG	GGGAACAGGA	TATTCATACA	CTCTCTTTTTTTT	CECACCOMA	ACAMAACOMA
812/1	TTTACAACTCC	A A A MCCMCC	COMMUNICATION	GICIGAAGGI	GICACCCTAA	ACATAACTTA
01241	CTCARGIGG	AAAATGGTGC	CTTTACAATG	AAGAAATCTA	GCAGAAACCA	TCTTAATCTA
81301	GTGATCAAAC	TTAGTATCAC	CAATAATGGA	TCATACTGAG	TCATGTGTCT	CCTAATATGA
81361	TGCACCAGGA	AGGATGCAAC	GTCATGAACG	TTGTATTCTT	TTGTATTCAA	CAGACCACCC
81421	AGGGTAAAGG	CAGCTTTCTC	ACTTACTAAT	CAGAATTGTT	GGTTTTAATT	CATTTTGGAT
81481	TTTAAGATTT	CTTACTTTCT	TGTCAGCTCA	GAAATTTATT	TAAGATGATT	ͲͲͲΑͲϹͲͲͲͲ
81541	ATTCAATACT	TTAGCTTGGA	GAACCATTCA	$G\Delta GTTTCT\Delta\Delta$	CTCATTCTAT	TCCCAAAAAT
81601	AGAAAACAGC	ATGGTTTCTT	TTCAAAATCT	CTAACTTTAA	ACTIVACTOR	CTCTCTCTCTCT
81661	CACATTCACA	TAT COTTICIT	CCCMACMANGI	CIMACITIAA	AGITACITGI	GIGIGICACT
01701	DECACAL LCACA	TAGCTTTTTT	GCCTAGTAAT	GTAGTATCAT	GTGGCAAGGC	TATAAAAATG
01721	TTTACAATCT	TTTATTTAAT	ATGACTCTTG	AGAGTTTATT	CTAAGGAAAT	AATTGAATAG
81781	TAACAAAACA	CTATTAACAC	AAAGCATAGC	AATTTGATTT	GGGCAACCAA	ACACTGGAAA
81841	CAACCTAAAT	GTCCATTACA	GGAATCATTT	ATGAAGCAAA	CACTAAAATA	TTTATTGTGA
81901	AGATTATGAG	AACATAGAAG	ACAGTTATGA	GAGTAAATTT	GAAAACCTGA	ACACAAAACT
81961	TACATATACT	CCAATTGTAA	СТТАТАААА	ATACGTGCAT	ΑΤΑΔΕΘΑΤΑΔ	ΔΔCΔCΤΔCΔΔ
82021	АСАДАДАДАТ	AGTTGCGTTA	CATTCCTACA	ATTATCCCTC	COMMONDOCONCO	
82081	ጥሮርጥጥጥጥ አር አ	TTTTGATACA	THAT THOU I ADA	MUMBARMONN	CILIIGCIGI	CITAATTTT
92141	CTCATCTTTC	CCACMMONAC	CARALLIAMI	ITTAATTTTA	AAATTCAAAA	GAATTTGCCA
02141	CICAICIIIG	CCACTTCAAG	GAAAAAAGAA	ATGTGTTCGA	TTATTCTGTT	CTTAGTATAG
82201	TTTTGGCAAT	TTCCTCACGT	GTAAAAAGAG	AATACTATTA	ATAATTTCAG	TATCTATAAG
82261	ACAATATAAA	ATTAAAGAAT	CTAGCCCAGT	AACTGGTACA	TGGAACGTAA	TTAATAAATC
82321	ATTATGGACT	TTTTTTCTCA	CACCCAAGTA	GGGAGGAATC	AGTGGTCCCC	TAGAGGCCCA
82381	GTGTAGAGGT	GGCAGCACCA	ATCCCTAGGG	GAGAAGATCT	TGGTGATGAT	ΔΔͲͲϹϹͲϾΔϾ
82441	CAGACAGTTA	GCTGAGAATT	CAAGAGCAGA	ΔΑΔΩΤΑΔΩΑ	ACAAACAACT	TOTTCOTANC
82501	ACCTTTCCAC	CCACGTTTCC	CTCTTCTCTT	CHACHCHCCH	MACCCMMMCA	TCTTGCTAAC
82561	CACACCAAAC	AGAACCAAGT	TIGITCIGIT	MCAMMCA CMA	TACCCITICA	TGGATGGAGG
02501	A TO COTO COLLAND	MCACCAAG1	TIGCICIIAG	TCATTCACTA	TGTTGTTTAA	TCTGCCTTCC
02021	ATCTTTCTTA	TCAGTTCAAA	TTAGAATGTA	GACCTGAATT	TAAATCCCCG	TTCTGTCAGT
85981	TATAATGTGA	CCCTAGACAA	AACACATTCT	CTGAACCTCA	GAGAACATTC	TTCATTTGTA
82741	GAATGGGAAG	ATTAATCTAT	ATTCCACTTG	GATGGCAAGT	CTTTTATAAA	CTTTATAACC
82801	TAAACATGTG	TGAGTTGCTA	GTATCATTAT	GTTGGTAAAG	TTATTCTGAG	ATATGATAAC
82861	AGAACTGTTT	TGTCTAACTC	CACTAGCATG	GTTCAGGTTT	AGAGAGTGTG	GAATTAAAAC
82921	GCTTTATCCT	CAAATATGAC	ΤΤΑΑΑΤΟΟΙΙΟ	THUTTHE	CCACMMMCCM	CCACAAACAA
82981	ATCCTCAGGA	λληςλελλλε	TIMMI COM	TITITOTOM:	TEMPERATURE A	CCACAAACAA
02001	CCACAMCCMM	AATGACAAAC	TTTACATGGT	TAAACATCAG	TTTTGTTTAG	TCTTTGACAT
03041	CCACATGGTT	AAATCATACA	TTTGAAAACT	GCTTATATTT	GTGTTGTCTA	TGTCTAAATT
83101	GAAAAGACTT	ATTGAGGAAT	AGAAGACTAC	ACATTTTTCA	GCAAACACTG	CACGTTTTGC
83161	AGAATTTCCC	CAGGCACCAG	TCTCCAGGAA	TTTATTGGCT	ACTAACAATA	CTAAGATATG
83221	GATGAATGAG	GAAATCAAAA	TGGAGATCTT	GCAAGTTTTG	TGAGAATGGG	TGAATGGTCC
83281	AAATGAAGAG	ATAAGTTGTG	AAATATTAGT	ACAAGTAAAA	ΑΤΤΑΤΤΤΔΟΔ	ΔΤΓΑΔΑΓΑΓΑ
83341	TTTTGTCAAT	AGCTATGAGA	ΑΨΨΨΤΑΛΟΔΨ	TCACCCACAA	Value Commune	
83401	AATACCCACC	TAGGTATACA	44444444444444444444444444444444444444	TOTOCOCHONA C	TITOCHIIIC	TITCITCAGA
03461	DOMODONALEE	TAGGIAIACA	TATAAAAAGT	TATTCATTAC	AGTATCGTTT	TTCATAGGAA
03401	AAAGITTTAA	AAATCAGAAG	CTATCTAAAC	TATGGTATAT	CTAGGTCATA	GAAATCAAAT
83521	GACTAAAAAT	GTTAATATAA	GCATATGTTT	TTAAATTAAC	TTGGCTTGGG	TCTTCAGCAA
83581	AATTGGCTTC	TTAACATTGC	ACTCCAGAGT	TAGACTTACC	CACTCAGTCA	CTTATCATGC
83641	AGGAGCAGAC	TCCTAATACC	ACATATCATA	GAGCAGAGTA	GGACACAGGT	TCTCTGCAGG
83701	CAGGCAAATC	CCAAAGAGAA	GGGAGGAAAG	GGCTGAGACA	CTGCATGGTC	AATTTCTTCT
83761	GAACTCTGCA	ATGTACGGAG	GTGGACAGTG	TCCACAAACA	TTGCTCCCCT	CCACCCACCA
	. = = 1 0 0.1			- OOLIOAAAAA		CONCOUNCE

83881 TOTRIPATIAC ACAACGGCTT ISTITIGTT TIGTITITG TITTITGACA GAGATTITOC 83981 TOTGITTGTTCT CACACAGAC 83981 TOTGITTGTTGTC CACATACTCT CACACAGCAC 84001 ACATGCCCA GATATTTC TATTITTAGA GAGACGAGG TICTCCACCT 84101 TOTGITCAAA CICTTAACCT CAGGTGTACC ACCGGCTCCA AGAGCGCAG 84181 CACTCATTCA CACTTAACCT 84181 CACTCATTCA CACTGCACCAC 84181 CACTCATTCA ACTCTTAACCT 84181 CACTCATTCA ACTCTTAACCT 84181 CACTCATTCA ACTCTCACACA 84181 CACTCATTCA ACTCTCACACA 84181 CACTCACACAC 84181 CACTCACTCA AGAGCAGCA 84181 CACTCACTCA GATAGGAACT 84241 TATACACACTA GATAGGAACT 84241 TATACACACTA GATAGGAACT 84361 CACTCACTCACACAC 84181 AACTCACCACAC 84181 CACTCACACAC 84181 CACCACACAC 84181 CACTCACACAC 84181 CACTCACACAC 84181 CACTCACACAC 84181 CACCACACAC 84181 C							
83941 TGGGTTCAB TGATTCTCCI GCTCAGCT CTGAGTGGA TGGGATTACA GCGATATTTC ATTATTAGA ACAGGAGGAG TTCTCCACCA TGGCCAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	83821	TCATAATAAC	ACAACGGCTT	TGTTTTGTTT	TTGTTTTTGT	TTTTTGACAC	GGAGTTTTGC
84001 ACCATGCCCA GCTARTTTE TATTTTAGT AGAGAGGG TTTCTCACA TGGCAGGG 84101 TAGGGTGTGAAC TGGTAGACC GCAGGCCAC AATGGCCTTT TGTTTACATC TCTGTGCAG 84111 TAGGGTGTGT GCTGCTATA 84211 TAGGACAGT GCCTGGCATA AGAGAGATA CATATTCAT TGTTTACATC TCTGTGCAG 84301 ACCTACTGGA GATTCTTTCA AGAGAGATA CATATTCATA TGTTTACATC 84301 ACCTACTGGA GATAGGACTA AGAGAGATA GATATTCATA TATTCAGAGAA 84421 ATATCGCATA AAGAGCAGAA GATTTAGTAT AGGCAGAGAA AACTATGAGA 84421 AATTCGCATT TTTGAGGCT GTTGTCTT AGTTTCTTTT CTTTACTTCT CAGATTTAGA 84421 AATTCGCATA TTGTGAGGCT GTTGTCTT ACTTTCTTT TGTTTTACT CACTCTTCAG 84401 TCCAAACTC TGTTAAATGA ATACGCTGAA TATTCATTTTT CTTTTTTTT TATTAGAGAGAA 84401 TCCAAACTC TGTTAAATGA TACCAGTGAT TTTTTTACTT TATTAGAGA TATTCTTTTTT 84501 CCTAGGATTT CCAATGAGT TTTTTAACTT TATTAGAGA TTTACTTTAGA 84701 TCCAAACTC TGTAAATGA TACCAGTGA TTTTATTTTT TATTAGAGAT TATCTTTTTTT 84701 TCCAAATGC TGTAAATGA TACCAGTGA TTTTATAGATA TATTAGAGA TACCTTTTTT 84701 TCAAATGC TGCACATTT TATTCCTACA TATTAGAGA TATTAGAGAT TCCTATTTTG 84701 TCATTCAGA CTAGACATTT TATTCCTACA TATTAGAGA TACTTTTAGAGT TATTAGAGA TACCATTT TATAGAGATAT TATTAGAGA TACCATTT TATAGAGATAT TCCAAACTCC AAACCTCAAACTCC AAACCTCAAACTC AAACCTCAAACTCC AAACCTCAAACTCC AAACCTCAAACTCC AAACCTCAAACTCC AAACCTCAAACCTC AAACCTCAAACACTC AAACCTCAAACACTC AAACCTCAAACACTAAAAATTAAAAAATTAAAAAATTAAAAAA	83881	TCTTGTTGTC	CAGGCTGGAG	TGCAATGGTG	TGATCTCGAC	TCACCACAAC	CTCCACTTCC
84081 TGGTCTCAAA CTCTTAACCT CAGGTCATC ACCGCTCT GCCTCCAAA CTCTGTGCCAT 84181 CACTCATTC ATCTTCTTC AAGACCASTA CATACTCAT CTCTTACATC CTCTAGGCCAA 84181 CACTCATTC ATCTTCTTC AAGACCASTA CATACTCATC CTGGTGCAAA ACCCTACTAGAA 84201 ACCTACTGG GATAGGAACT GAGAACCAC ATCATAAAAC CTGGGTGCAAA ACCCTACTAGA 84481 ACCTCACTGA GATAGGAACT GAGAACCAC ATGGAAGGAA AACTATGGC 84481 ACCTCACTGAT ATGATAAGAA AAGATCATA TTTGTCTTAT CTACCTCAC CAGTTTCCAG 84481 TTCCACACTC TTCTGAGGCT GTTTGTCTT ACTTCTTAT CTACCTCAC CACTCTCAG 84481 TTCCACACTC TTCTGAGGCT GTTTGTCTT ACTTCTTTT CTTACTTATC CACTCTCAG 84481 TCCACACACT TTCTGAGGCT GTTTGTCTT ACTTCTTTT CTTACTTATC CACTCTCAG 84481 TCCACACACT TTCTGAGGCT GTTTGTCTT ACTTCTTTT CTTATTTTAC CACTCTTTC 84501 TCCAAACTCC TGTTAAATGC ACCACAGAT TTTTTAACT TATATCAGACC TTTTATTTTG 84701 TCATTCATTA TGACCATGAT TTTTTTAACT TCATTCTT TATATCAGACC TCTTTAAGT 847181 AAATTCTTCT CTGCACATTC TACACCCTGA ATTTATTCTGG GACGACTC TCCTTATTAGA 84810 CCTTATTACAC AAAACCATAT AACTCCAGA ATTTATTCTGG GACCACTCCTTATA 84901 TCATTGCACAC AACACCTGA TTTTTAACTT TCATTCACTTC TTTAAACTT 84901 TATATCACTTC TTTTTCCATT AGACCTC AATTTATACAC ATTTTAACACCTGA ATTTATACACACTC AAACTCTAAG 85021 TCCTCTGTAA TGGCCTCCA ACCCACACTCTCTACACTC 85021 ACTCCTCTGAA TAGACCTC AACTCAGACC TTTTAAACTCC AAACTCTAAG 85021 TCCTCTGTAA TGGCCTCCA ACCCACAC TGTGGCACC CTCAAACTCC AAACTCTAGG 85021 ACCCTCTGAAACTC GAGACCAC GCTGAAACTC CAAGACCTC ATCCACACC 85021 CAAAAATTAA CCGGGGTGTG TGGGGGGC CATGGGACC CAAGACGACAC TTCAAACTC AACCCTGAA 85211 ACCCCACACT GGGCACCA CTCCAGACCAC TCTGGGAAGC CAAGACGACAC TTCAAACTC 85211 ACCCCACACT GGGTGACCAA ACCCGACAC TTCTGGCAACAC ACCTCCTCAAA AAAAATTATA TGGCACCAC 85021 CAAAAATTAA CCGGGGTGTGG TGGGGGGC CATGGACCACA TTCAACCTG AACCTCTCAAACCCTAAGACACACACTCC TAGAACCAC TCTCAGACCA ACCTCCTCAAACACACACACACACACACACACACA	83941	TGGGTTCAAG	TGATTCTCCT	GCCTCAGCCT	CCTGAGTGGA	TGGGATTACA	GGCATGCACC
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84211 TIMGCACAGT GCCTGGGATA AGGARANTGA TCATTARAAG CTGGGTGAAA AACTTAGAAG 84361 CARCATCTGG AAAGGCAGAA GATTTAGTAT AGGCAAGAAG TATGCTTTG GAATATGA 84361 CARCATCTG TATGATAGAAA AAGARCATA TTTGCTTATT CTACCTACT CACTTCTCAG 84481 TICCACAGT TICTGAGGCT GTTTGTCCT ACTTTCAT CTACTTCTAC CACTTCTGCAG 84481 TICCACAGT TICTGAGGCT GTTTGTCCT ACTTTCATT CTACTTACT CACTTCTGAG 84481 TICCACAGT TICGAGGCT GTTTGTCCT ACTTTCATT CTACTTACT CACTTCTGAG 84481 CATCAGATT CACATGAGT TITTTAGATT TAGATTATT CTACTTACT CACTTCTGAG 84481 CATCAGATT CACATGAGT TITTTAGATT TAGATTATAGA TATCATTTAGA 84781 CATCAGATTT CACATGAGT TITTCTTAGA TITTTAGATT TATATGATA ACCTTTTTTT 84961 TATCATTATA AGACCATAT TAACACCTGA ATTATTCTGG GGTCAGTCT CTTACATTG 84781 AAATTCTTGT CTGCACATTT TAACACCTGA ATTATTCTGG GGTCAGTCT CTTACATTG 84781 CATTATTACA AAACAGATTA AACTCCACTT CTTACATTGGATT CTGAGATGA TATTTTGGAGAT 84961 ATTGACTTGT TITTTCCATCA AACTCCATTT TATATAGAGT TATTAGAGAG 84961 ATTGACTGT TITTTCCATCA GAGCAGGTAA CTTGACTGGA CTCAAACTCA AAATCAGTTT 84961 TAGACTGAT TATTCACAC CAGCAGGTAA CTTGACTGGA CTCAAACTCA AAATCAGTTT 84961 TAGACTGAT TATTCCACAC CAGCAGGTAA CTTGACTGGA CTCAAACTCAGAGG 85021 CCCTGCTGAA TGGCAACCA GCTGGCCCA CATGGTGAAA CCCTGCCCTC AAACTCAGAGG 85021 TCCTTGTAA TGGCAACCA GCTGGCCCA CATGGTGAAA CCCTGCCCTG							
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84481 TATCACARGET TATGATARAGA ANGABATCATA TITGTCTATA CATCTICTCA 84581 GITCACARGET TATGAGATG CITTGTCTCT ACTTCTTTT COGTITATA CATCTTTTTE 84661 CTCACARCTGC TGTTARATG ATCACAGTGA TTATATACT TATATAGTAT ATCTTTTAGT 84761 TCCAAACTGC TGTTAAATG ATCACAGTGA TTATTAGATT TATATAGTAT ATCTTTTAGT 84721 TCATTCATTA TACCATATT TTTCTCTACA TTATATAGTAT ATCTTTTAGT 84721 TCATTCATTA TACCATATT TTTCTCTACA TTATTAGAGA TAATTATAGA AGCTCTCTA 84841 CCTTATTACA ANAACAGTAT AACTCACATT ACTTTTTAGT 84841 CCTTATTACA ANAACAGTAT AACTCACATT GCCTTGTTTC TTAATATGAC AAATCATTCT 84901 TGATTCAGAT ATCACACCTGA ACTTATACAGA TTATATAGA AAACAGTTAG 84901 TGATTGCAGATT TTTTTCCATC AGCAGAGTA ACTTAGATGA TCTGGATCT CAGCAGAGTA 84901 TGAGTTGGAT TTTTTCCATC AGCAGAGTA CTTGAATGAGA TCTGGATCT CTGACAGAGT 84901 TGAGTTGTT TTTTTCCATC AGCAGAGTA CTTGATGAGA TCTGAACTCC AAACTCTAGG 85021 TCCTCTGTAT TGGGGAACTG CAGTAACTCT TGTTTAGATCT TTTAAGACTA ATTGGGACAGT 85021 TCCTCTGTAT TGGGAACTG CAGTAGACTT TGTTTAGATT TTTAGACTGA 85021 CAGAGAGTA ACCCAGCAC CATGGTGAA CCCTGCCCT ACTAAAATA 85201 CAAAATTAG CCGGGTGTGG TGGTGGGGC CTGTGGGGG CAAGGTGGA GATCACCTG 85381 ACTCCAGCCT GGGTGAAA ACCCGGCCC CATGGTGCAA CCCTGCCCT ACTAAAATA 85211 ACTCCAGCCT GGGTGCAAA ACCCGGCC CCTCTCAAAA AAAATTTAT TGGCACCTG 85381 TGGCATCTCC TATGAATACA AGCGGACCTA TAGAATTCTG TCTCCCTTT 85381 TGGCATCTCC TATGAATACA ACCCGGCC CCTCTAAAA AAAAATTTAT TGGCACCTG 85414 ACAGAATTT GGTCTCCCTT TCCTCGAATT TCCTCTTTT TGGATTTCT TTTCTCTTTTT 85501 CCAGCAGCTG TGGTTGCCCT TACCACTGGGC CCTCTTATATA TATTTCTCTTTCT TTTCCTCTTTT 85501 CCAGCAGCTG TGGTTGCCCT TACCACTGGGC CCTCTTTTTT TTTCCTTTTTT TTTCCTCTTCTT 85501 ACTCCATTTTAGA TTTACATTCC CTCTCAGACA AAATAAAAAA TAATTTCCTT CTTGATGTA 85501 AACTCGACT TACAATTCCCCA AAACTCCGGT CTCTCTTTTT TTGGATTTCT TTTCTCTTTTC 85501 ACTCTATAAAA TAACATTATA TATCATTCT TTTCTCTTTTC TGGATTTCT TTTTTTTTTT	84301	AGCTACTGAG	GATAGGAACT	GCAGACCAGC	ATGGAAAGAA	AACTATGAGC	CAGATATTGA
84481 TATCACARGET TATGATARAGA ANGABATCATA TITGTCTATA CATCTICTCA 84581 GITCACARGET TATGAGATG CITTGTCTCT ACTTCTTTT COGTITATA CATCTTTTTE 84661 CTCACARCTGC TGTTARATG ATCACAGTGA TTATATACT TATATAGTAT ATCTTTTAGT 84761 TCCAAACTGC TGTTAAATG ATCACAGTGA TTATTAGATT TATATAGTAT ATCTTTTAGT 84721 TCATTCATTA TACCATATT TTTCTCTACA TTATATAGTAT ATCTTTTAGT 84721 TCATTCATTA TACCATATT TTTCTCTACA TTATTAGAGA TAATTATAGA AGCTCTCTA 84841 CCTTATTACA ANAACAGTAT AACTCACATT ACTTTTTAGT 84841 CCTTATTACA ANAACAGTAT AACTCACATT GCCTTGTTTC TTAATATGAC AAATCATTCT 84901 TGATTCAGAT ATCACACCTGA ACTTATACAGA TTATATAGA AAACAGTTAG 84901 TGATTGCAGATT TTTTTCCATC AGCAGAGTA ACTTAGATGA TCTGGATCT CAGCAGAGTA 84901 TGAGTTGGAT TTTTTCCATC AGCAGAGTA CTTGAATGAGA TCTGGATCT CTGACAGAGT 84901 TGAGTTGTT TTTTTCCATC AGCAGAGTA CTTGATGAGA TCTGAACTCC AAACTCTAGG 85021 TCCTCTGTAT TGGGGAACTG CAGTAACTCT TGTTTAGATCT TTTAAGACTA ATTGGGACAGT 85021 TCCTCTGTAT TGGGAACTG CAGTAGACTT TGTTTAGATT TTTAGACTGA 85021 CAGAGAGTA ACCCAGCAC CATGGTGAA CCCTGCCCT ACTAAAATA 85201 CAAAATTAG CCGGGTGTGG TGGTGGGGC CTGTGGGGG CAAGGTGGA GATCACCTG 85381 ACTCCAGCCT GGGTGAAA ACCCGGCCC CATGGTGCAA CCCTGCCCT ACTAAAATA 85211 ACTCCAGCCT GGGTGCAAA ACCCGGCC CCTCTCAAAA AAAATTTAT TGGCACCTG 85381 TGGCATCTCC TATGAATACA AGCGGACCTA TAGAATTCTG TCTCCCTTT 85381 TGGCATCTCC TATGAATACA ACCCGGCC CCTCTAAAA AAAAATTTAT TGGCACCTG 85414 ACAGAATTT GGTCTCCCTT TCCTCGAATT TCCTCTTTT TGGATTTCT TTTCTCTTTTT 85501 CCAGCAGCTG TGGTTGCCCT TACCACTGGGC CCTCTTATATA TATTTCTCTTTCT TTTCCTCTTTT 85501 CCAGCAGCTG TGGTTGCCCT TACCACTGGGC CCTCTTTTTT TTTCCTTTTTT TTTCCTCTTCTT 85501 ACTCCATTTTAGA TTTACATTCC CTCTCAGACA AAATAAAAAA TAATTTCCTT CTTGATGTA 85501 AACTCGACT TACAATTCCCCA AAACTCCGGT CTCTCTTTTT TTGGATTTCT TTTCTCTTTTC 85501 ACTCTATAAAA TAACATTATA TATCATTCT TTTCTCTTTTC TGGATTTCT TTTTTTTTTT	84361	CATCATCCTG	AAAGGCAGAA	GATTTAGTAT	AGGCAAGAAG	TATGCTTTTG	GAATATAGAA
84481 STCCACACTE TTCGAGGCT GTTGTCCTT ACTITCTTT CIGTTTTATC CACTCTTTTC 84601 TCCANACTCC TGTTAAATCC ATCCATGGA TTATTACAG TTAACTCAC CTTTATTTGT 84601 TCCANACTCC TGTTAAATCC ATCCACTGAA TTTTTAACTT TATATTGTA ACTCTTTTAGT 84721 TCATTCATTA TGACCATAT TTTTTAAGTT TCCATTTCT TGCTGAGACT TCCTATTTGT 84781 ACATTCTTT TGCACACTTC TACACCCGA ATTATTAGCA TATATTACA ACCCTTCTA 84781 ACATTCTTT TGCACACTTC TACACCCGA ATTATTATCAG GGTCAGTCT TGTTACATTG 84781 ACATTCTTGT CTCCACACTTC TACACCCGA ATTATTCTGG GGTCAGTCT TGTTACATTG 84901 TGATTGCAGA CTAGACACTT TGAATTAAAC ATTATACAGA TTCTGGATCT TCGACACGAGT 84901 TGATTGCAGA CTAGACACTT TGAATTAAAC ATTATACAGA TTCTGGATCT TCGACACGAGT 85021 TCCTCTGTAA TGGGCAACTA AGCGAGGTAA CTTGACTGAG CTCAAAACTCC AACCTCAGC 85021 TCCTCTGTAA TGGGCAACTA ACCCCAGCA CTGTGGGAGGC CAAGTGGGA GGACACCTG 85141 AGGTCAGGAG TTCGACACCA GCCTGGCCCA CATGGGGAGGC CAAGTGGA ACCCTACCCT							
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85081 CACGGGGCT CATGCCTGCA ATCCCAGCAC TGTGGGAGGC CAAGGTGGGA GGATCACCTG 85141 AGGTCAGGAG TTCGAGACCA GCCTGGCCCA CATGGTGAAA CCCTGCCTCT ACTAAAAATA 85201 CAAAAAATTAG CCGGGTGTGG TGTGGGGGC CTGTAGTCCC ACCTACTCAG 85261 CAGAAGAATC ACTTGAACCT GGAAGGCAGA GGTTGCAGTG ACCCCAGATT GTGCACATA 85321 ACTCCAGCCT GGGTGACAAA AGCGGAGACTC CCTCTCAAAA AAAAATTTAT TGGCACTGCT 85381 TGGCATCTGC TATGAATCAC TAAAATCAGT GGGTGACCTA TAGATCTGGG 85401 ACAGAATTTG GGTCTCCCTT TCTCTGATT TCTCCTTTTC TGGATTTCTT TTCTCATTT 85501 CCAGCAGCTG TGGTTGCCCT AAACTCGGTC CTCTGTTTCT TTACGGCAGT AAGATTTGGG 8551 AACTTTTAGG TTTTACCTGC CTCTCAGACA AAATAAAAAAA TAATTTTCAT CTTCATTTA 8561 ACTCTAAGA TTATCATTGT TTTCGTGGG AGAGTTGCGT CTCTATTACAGT ACAACTTGCGA 8561 AACTTTAAGA CACACTCCTC AATTCCAGT TGTTTTAT TGCCTCCCAG 8561 AACTGAAGA TTATCATTGT TTTCGTGGG AGAGTTGCT TTTTCCTTCTT TACTGCTCAG 8561 AAGAGTTTTA ACTACCCCT ATGATCATTG AGAGTTTCCAGT TGTTTTATT TGCCTCCCAG 8561 TATATTTTCA TACTTCCCTA ATGACTTCT ATTATCCCT TTTTTCCTAT TCTCTTTTGGA 8561 TTTATTTTCA TACTTCCCTA ATGACTCT TTTTCCTTC TTTTTCCAGT TGCAATGCAGC 85741 AAACTGGAAG CTCAAACAAT GTCAACAAT TTTCCTACTT GAGATTCAG TGCCTCAGA 8591 AAGGATTTAA ACTACCCC CATTATTAAA ATGACACTTC TTTTTCCTAT TTTCTCTATT 85861 TATATTATCA ACTACCCC CATTATAACAT ACTCCCCAACTG CATTTATAAA AAGAAAATTT 85921 CAAATGACCC CCATATTACAA AATCCAACAT TTCTACCTGGGTA TTTATCAGT TGGAGCCAGA 86041 TAATCAACCAT CAGTCCAGA AATTCAACT TACTACCTGG TTTATCAGT TGGAGCCAGA 86041 TAATCAACCAC CAGTCCAGAC AAGAGGAGAA AGCCCTAAT AAAACCAAC CTCTCAGGTAA 86101 CTGCTAATAA AGACATACCC CAGACTGGGGA GACTGGGGAA ACTTACAGT CATCTTATGA 86221 GCAAGGACAA ATGACCAAA CATTATAACT TACTACCTG TATAAACAAT CATCTTATGA 8621 GGAGGTACAA CAGAGGAGA AGAGGAGAA AGCCCCTAT AAAACCAAC CATTTACAGT CACTTTCAGA CAGAGGAGAA AGACCCCCTAT AAAACCAAC CATTACAGT CACTTCAGC CCCCCCCCCC							
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85681 AGTCTAAAGA TTATCATTGT TTTCTGTGGG AGAGTTGGT TGATAAAAAC TACTCCCCA 85741 AAACTGGAAG CTGGAAGCTT GTAATTATGA ATAGACTTTG AGTAGTATTC TCTTTGGAA 85801 AAACTGGAAT ACTACTCCCT GTATTATCTA TACTACTCCT TTATTTCCTGT TTTTTTCATC CGGTAATCTT 85921 CAAATGACCC CATATTACT AAATACAAATA TCCCCAACTG CATTTATAA AGAGATTTA ACTACTCTA AAATACAATA TCCCCAACTG CATTTATAAA AAGAAAATTT AGAAACAAT TTGTAGAATA AGTAAAATAT TGCTGGGCTT TGGAGCCAGA 86041 TAATCAAGGT TAGAAACCAA GTTCTAACT TACTAGCTG TGTATTAGT CTTTCCTATG 86101 CTGCTAATAA AGACATACCC CAGACTGGGA GACTGGGAA TTTTATGAAGA AAAGAGGTTT 86161 AATTGACTCA CAGTTCAGCA TGGCTGGGA GGCCTTAGGA AACTTACAGT CATTCAAGGA AAGAGGGAAA AGCCCCTTAT AAAACCAATC CAGTCCAAGCA AAGAGGGAAA AGCCCCTTAT AAAACCAATC CATTCACGA GACCAGGG GGCCTTAGAA AACTTACAGT CATGTGGCA GGCCTAGA AACTTACAGT CATGTGCCC CCCCCATGA CACATGAGGA AGCCCCCTATA AAAACCAATC GATCTATCA AACACCATC CCCCCATGA CACATGAGGA TTATAAACCATC GATCTATCA GAGAGGGAAA ACCCCCCTGTA TAAAACCATC GATCTATCA GAGAGGGAAA ACCCCCCTGTA TAAAACCAATC CCCCCCATGA CACATGAGGA TTATGAAAGC CCCCTCCCAGT TAAATTACCTT CACCCCCAGT CCCCCCATGA CACATGAGGA TTATAAATCC AAAAATCCAA GTTCAAAGCC CACCTGCC CCCTCTCAAA TCTCATGCCC CAAGGGCAAGT CCCTTCCCC 86521 GCATTAAGTC AAAAATCCAA GTTCAAAGTC CACCCTGCC CCCTCTCAAA TCTCATGCCC CAAGGCAAGT CCCTTCTCCC 86521 GCATTAAGTC AAAAATCCAA ATGGCCACCC CCCTTCAAA TACACTGCCC CCAAGGCCAGT TAAAAATCCAA AACACCAA ATAGGGCAAGT CATTAAACTA AAAATCCAA ATGGCCACC CCTTCTCAGAG CAAGAGCAAG CCCTTCCCC AAACAAAAAACCA TAAAATCCAA ATGAGGCAAG CATTAAACTT AAAAGTTCCAA AACAAAAAACAA ATAGGCCAGC CCTTTCCCC CAAAGACCA TTGAGAGTC TGCCCCTCACAG CTTAACATT AAAAATCCAA ATGAGCCAG CTTATAACATT AAAATTCCAA AACAAAAACAA AACACAAAACAA AACAAAAAAA							
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86221 GCAAGGAGA GTTCCAAGCA AAGAGGGAAA AGCCCTTAT AAAACCATCT GATCTTATGA 86281 GAACTCACTC ACTATCACGA GAACAGCATG AGGGTAACTG CCCTCACGTT TAATTACCTT 86341 CCACCAGTCT CCCCCCATGA CACATGGGGA TTATGAAAGC TATTAATTCAA GATGAGATTT CACCAGTTC CCCCCCATGA CACATGGGGA TTATGAAAGC TATTAATTCAA GATGAGATTT CACCAGTTT CACCAGTTC CACCCCTGGC CCCTCCAAA TCTCATGTCC 86461 TCACATTTCA AAACTCAATC ATGCCCTCC AACTGTCCC CAAGGTCTTA ACTCATTCCA 86521 GCATTAAGTC AAAAATCCAA GTTCAAAGTC TCATCTGAGA CAAGGCAAGT CCCTTCTGCC 86581 TATGAGCCTA TAAAATCAAA AGCATGTTAG TTACTTCCTA GATACAGTGG GGGTACAGGC 86641 CCTGCAGAAT CCACACCA ATAGGGCAGT CATTACACTG GGTACAGC 86701 CCATGCAAGT CCAAAACCCA ATAGGGCAGT CATTACACTT AAAGTTCCA AAACAAAAGA GTTACAGACC 86701 CCATGCAAGT CCAAAACCCA ATAGGGCAGT CATTAACATT AAAGTTCCAA AATGATTCC 86821 TGGGCAGCT TGCCCCTTGTG GCTTTCCAGG GTATAACCTT AAAGTTCCAA AATGATCCC 86881 AGGCTGACAT TGAGTGTCTG GCTTTTCCAGT CCAGTGCCT TGCCCCTTGTT TGGCTTTTCC ATGAGTCTT TGAGTGTCT TGGGGATCT TGGGGATCT TGGGGATCACA AGGTGACAC TCCAGTGCT TGGTGGATTT TGGTGGATT TGGTGGATT TGGAGCTG TGGGGATCACA AGGTCAGAC AGGTCAGCC TGCAGCTCT TGCAGGCT TGGTGGATT TGGTGGATT TGGAGACCA TCCTGGCTAA CACGGTAAAA 87061 CCCAGTCTCT GCTTAAAAAA TACAAAAAAT TAGCCAGGCG TGGTGGTGG TGCCTTTGGT AGGCAGCAC AGGCGAGAAA AAAAAACAA AAAAACCATT CTGGGGACA ATGGCCACAC AGGCGAGAA ATGGCCACAC AGGCGAGAA AAAAAACAA AAAAACCATT CTGGGGGCT GGAGAATGGTA CCCAGGAGGT GGAGCTTGCA AGGCAGAAA AAAAACCATT CTGGGGGGC CCCTGGCGCAA AACCAACCC TCCAGCACAGGC TCCAGCACACAGGC TCCAGCACACACACACACACACACACACACACACACACAC							
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87781 GCACCAACTT ACTTATGCAA ATTTCTGTCA CTGGTTTGAA TTTCTCCCCA GAAAACAGGA							
8/841 TTTTTCTTTT CTATTGCATC ATCATGCTGC AAATTTTCAA ACTTTTATGC TATGCTTCCT							
	8/841	TTTTTCTTT	CTATTGCATC	ATCATGCTGC	AAATTTTCAA	ACTITTATGC	TATGCTTCCT

87901	GTTGAAGACT	TTGCGGCTTA	GAAATTTCTT	CCCCCAGATA	CCCAAAATTA	TCTCTCTCAA
87961	GTTCAAAGTT	CCACAGATAT	CTAGGGGACA	AAATGTTGCC	AGTCTCTTTG	CATAGCAAGA
88021	GTGACCTTTA	CTCCAGTTCC	CAACAAGTTT	CTCATCTCCA	TATGAGACCA	TCTCAGCTTG
88081	GACTTAGTTG	TCCATGTTAC	TATCAACATT	ΤΤΕΕΤΟΔΙΔΙ	$CC\Delta TTC\Delta \Delta C\Delta$	AGTCTCTATC
88141	ΔΔΩΤΤΤΌΙΙΟ	CTTCCCCATG	TTTT 0/110/1111	THETTATE	CCTTCAACA	TOTCICIAIO
00201	CTCTCTCTT	CCCACCCCAIG	A A CTT CA CTT C	TICIAAIAGC	CCTCCAAATT	TTTCCAACCT
00201	CIGICIGITA	CCCAGTTCTA	AAGTCACTTC	TACATTTTTG	GGTATCTTTA	CAGCAGTGGC
88261	ACTCCCCATG	GTACTAATTT	ACTGTATTAG	TCTGTTCTCA	TGCTGCTAAT	AAAGACTTAC
88321	TCGAGACTGG	GTAATTTATA	AAGAACAGAG	GTTCAACTGG	CTCACAGTTC	AGCATGGCTG
88381	GGAGGCCTCA	GGAAACTTAC	AAACATGGTG	GCAGCAAAGA	GAAGTTCCAA	GCAAAGAGGG
88441	AAAAGCCCCT	TATAAAACCA	TCAGATCTTG	TGAGAATTCA	СТАТСАТСА	ΔΑΤΑΘΟΔΤΟΔ
88501	CCCTAACTCC	CCCCATGATT	አ አ ጥጥጥ አ ር ርጥር	CCACACCCTC	CCTCCCATCA	CACCECCCCA
00561	TENTOCCO NO	UNCARTURATION A	CAMCACAMM	CCACACGIC	CCICCCAIGA	CAGGIGGGA
00001	TIAIGGGAAC	TACAATTCAA	GATGAGATTT	GGGTGGGGAC	ACAGCCATAC	CATGCCAGCT
88621	AGAGAGCCTT	AAGAAAGTCA	CCTAATCTCC	ACAAATAAAA	GGTTTCCTAT	TTGTTCAACA
88681	AAAATAATGA	CACCCCTTTT	ATGGGATTTC	TGTGAGGACA	AATGATAACT	AACATAGCCT
88741	TGCATAGTGT	CTGGCACAAA	ATAGCTACTC	AAAAAATAAT	AGAAACAACA	TTTAAAAAAT
88801	GTAGACTTTA	TTTTTTAGAG	TTTTATGTAC	AAAGCAAAAT	TGAGCAGAAT	GTACAGAGAG
88861	TTTCCGTATA	GCACTCCCTA	CCCCCAAGCA	CACATACCCT	CCCCCAGTAT	CACCATCCCC
99921	CACCACACTC	GTACATTTAT	mamaacmcam	CARMONAMAN	TCACCTCTCA	THE THE CAME OF TH
		TTTATATTAG				
89041	ATGTATAATG	ACATGTATTC	ACCATTACAG	TATCATAAAG	AATAGTTTCA	CTGTCCTAAA
89101	AATCTTTGAT	CTTCTTCCTA	TTCATCACTC	CCTCCCCATT	AATCCCTGAC	AACTACTGCT
89161	AATTTTCCTG	TCTCCATTGT	TTTGTCTTTT	CCTGAATGTC	ATATAGTTTA	AATATACAGT
89221	ATGTAGGATT	TTCAAACTGG	ͲͲͲΔͲͲͲϹΔϹ	ΨΨΔΩΨΔΔΨΔΨ	CCATTTCATC	TTCTTCCATA
89281	ΤΟΤΤΟΙΙΟ	GCTTCATAGT	TCNNTNTTTN	TACAMETCAA	TANTATTCCA	TICIICCAIA
09341	GIACIACAGI	TTATGTATTC	ATTCACCTAT	CAAAGAACAC	CTTGGTTGCT	TCCAAGTTTC
89401	AACAATCATG	AGTAAAGCTG	CTATAAACAT	CTATGTACAT	GTTTTTTTGT	GAATTGAACA
89461	TTTTCAGCTT	TTTTAGCTCC	ATTCCTAGGA	GTGCAATTGC	TGGATTGTAT	GATAAGGGTA
89521	TGTTTAGTGT	TGTAAGAAAC	TGCCACGCTC	TTCCTAACTG	GATGTACTGT	TTTGCATTCT
89581	CACCAGCAAT	GAAAGAGTTC	CTGTTGCTCC	ACATACTCAC	CAGCATTTGG	TGTCGTCAAT
89641	GTTTTGAGCA	ATAGCATTTT	CDTCTDDCTT	ΨΨΟΟΨΑΘΟΨΑ	TTCTTTTTCT	λααλλητλλη
89701	ATCACACATA	ATAGAGAAAG	CAMAMACCAC	CACACMMCMC	TICITITION TO THE PROPERTY OF	AGGAAAIAAI
09/01	ATTTAATGAA	GGACTCTGTC	CACACTTGGT	ATTTTTAACT	CTGATCCTCC	TCTCCCATGA
89821	ACTCTGACAA	TCTCCTAAAT	CCCTGTTGCT	GGCACACATG	GTTGTGTATC	AGGCCCCCTG
89881	TGGTCTGTCT	GAAGCATGGC	TTTTTTTTTT	TTTTTTTTT	TTTTTTTGAG	ACGGAGTCTC
89941	GCTCTGTCGC	CCAGGCTGGA	GTGCAGTGGC	GCGATCTCGG	CTCACTGCAA	GCTCCGCCTC
90001	CCGGGTTCAC	GCCATTCTCC	TGCCTCAGCC	TCCCGAGTAG	CTGGGACTAC	AGGCGCCCGC
90061	CACCACGCCT	GGCTAATTTT	TTCTTTTTTTTT	ACTACACCCC	CCCTTTCACT	CTCTTACCCA
90121	CCATCCTCTC	GATCTCCTGA	CCTTCTTTTT	CCCCCCCCCC	TCCCTCCCA A	ACTICOTICOCA
20101	TIACAGGCGT	GAGCCACCGC	GCCCGGCCTT	TTTTTTTTT	TTTTTTTTT	TTTGAGATGG
90241	AGTCTGTCAC	TCTGTCACCC	AGGCTGGTGC	AGTGATGCAA	TCTTGGCTCA	CTACAACCTC
90301	CATCTTTCAG	GTTCAAGTGA	TTCTGCCACC	TCAGCCTCCC	AAGTACCTGG	GATTACAGGT
90361	GCCCGCCACC	ACACCCAGCT	ATTTTTTTGT	ATTTTTAGTA	GAGACGTAGT	TTCACCATGT
90421	TGGCCAGGCT	GGTCTCATTC	CTGACCTTGA	GTGATCCACC	TGCCTTGGCC	TCCCAAAGTG
90481	CTGGGATTAC	AGGCATGGGT	CATCACATGT	GCCCTCAACC	ATCACTCTTC	CTTTAATCAT
905/1	λπς λλλπλςπ	GCTCTGTATT	COMPARCMANN	TCA A A TCCCA	CACCECCEC	CITIANICAL
00041	AIGAAAIACI	GCICIGIAII	GITAICIAIT	TGAAATGCCA	CACCTCCTGA	GCTAAATTGC
90601	AAGCTTTTAT	GGAGCACAAA	CCATATTTAT	ATATATTAGC	ATGATACCAT	GACACATATC
90661	AAAAGCTGTT	ATATATTGTT	ACGTGAATTG	ATTCTTTCTC	AGTTAAGAGG	ACCTCTGTAG
90721	TAGCACTTTC	ATACCGTTAA	TTTTTCATTT	TGTGCCCAGC	CCCTACTCTG	TGAAAAATGA
90781	AATGAATCCT	GTTATCATTT	CCCTCCCAGG	CCTTTTCTCC	TTGTGGACAA	TGTGTGGCTC
90841	AAGAGAAAAT	TCAGTCAGTA	AATTTGTTCA	GTGCACAAAC	ТСТТТАТСАС	СТСТСАСТСТ
90901	TCTCAAGTGA	GATAGAACAG	ΔΔCΔΤCCΔΤC	CACTCTCTTA	CAAATTCTCT	CCTATATATACT
90961	ACCCACTCAA	TAAATGTTTT	THICK I COMIC	CCAMACAMCA	AMCCMAMMOC	GGIAIAIAGI
01001	AGGCACICAA	CAMCAMMON	TIGAATAAAT	GCATACATGA	ATCCTATTCC	TATATATAGT
91021	ATGGTAGACA	GATCATTGAT	ACCCAAAGAT	GCCCAAATGC	TGATCCCCAG	AACTTGTGAA
91081	TATGTTACAT	TTCATGTCAA	AAGGGACTTT	GCTAATGTGA	TTAAGGATTC	AGACCCTTGG
91141	ATTGTAAGAT	TATCCCGGAT	TAACCAGGGC	CAATCTAATC	ACATGAGACC	TTAAAAAAGC
91201	AGAAAACATT	TCCCAGCTGG	GTTAGAGAGA	GATGAGACAG	AGTAAAAAGG	AAAGAGATTC
91261	AGGGCATGAA	AATGACTCTA	СССДСТСТТС	СТСССТТТСА	ACATACACCA	ACTACCCCAC
91321	AAAACAAGGA	GTATGAGTGG	CCUTALOTIG	TACCANANAC	CCCMCAMCMC	VCVCCCVCCC
01201	ACD A A CCA CE	CCMCMCACCA	CNACARAMA	DARARADORI	ROCKOTCATUTG	MCAGCCAGCT
21201	AGAAAGCAGT	CCTCTGACCA	CAAGAAATTG	GATTCTGCCA	ACCACTCAAA	TGAGCAAGGA
91441	AATGGATTCT	CCCCTAGAAC	CTCCAGAAAG	GAACACAGCT	CTGTAATGCC	TTGATTTTAG
91501	CCAGGTGAGA	CCTGTTTCAG	ACTTTTGACC	TATGGAAATA	TAAGATAATA	AAGTTTTATT
91561	GTATGCTGCT	AAATTTGCGG	TAGTTTATTA	CTGAAGCAAT	GGAAAGCCAA	TACAGACAGA
91621	ATATACAGAG	AGAAAGAGAA	TGAGTTCTTT	ССТСАТААТТ	ΤGΤΑΔΑΤΔΤΤ	TGGGTCTTCA
91681	CTGGACAAGC	TTCACAGAGG	Δጥጥር Δ Cጥር Cጥ	ጥርርርጥአርርንን	DCCDCCVUCTO	CCACTCTION
917/1	7 CCC TCCT	TCTTAGGCCC	VCCVWVWCWC	ACCIPCION CIPCO	ADACAGCAIGI	CAAACCACC
01001	CCCTCCCII	TOTIMOGOOD	AGCATATGTC	AGCIGIGIGC	ATAGAAAAAT	CAAAGCAGGA
21001 2100T	CCCTGAGTAG	TTGGAAAGAA	AAGATGGTTG	GAAATGGGTT	GCACTTCAAG	TGAGGAAACA
91861	AGAGGTAGGA	GACCGGCATC	TCTTTCTCAT	ATGTCCCAGG	CTGACTCTTG	TGAGTTGTTT
91921	TCCCTTGGAG	GCTATCGATG	ACAGTCACAG	TAACCTGATG	GAACCTGGAT	CATGATGAAA

91981	GAAGTAAGTG	TCAATGGCTC	CGACTTCCAA	GGACTCTGAT	GTCCCACAGC	ACTAGCTAAA
92041	CAAAGCCAGT	TGGAAATGAG	CTTAAATGGG	GAATTTCCTG	AATATATTCC	CTATTGTTAG
		TGGCTTCCTT				
		ATTAAGTGAT				
		CAACGGCTGA				
92281	AAGACAGGAA	GACGTGATCT	CCAGGGAGCC	ACTAAAAGGA	TTGGCACCTG	CCTCTGGATT
		TTATATTACC				
		GTCACGTCTC				
92461	AGACCTAGTT	TGGAGTCTGG	AGTCATGAAG	GTGACATACA	TGTAGCTAGT	GACATAAGTG
		AAATAGTGAG				
		CATGCTCTAG				
		GATTTCTTAG				
92701	TTAGGTGACT	TTTAAGGACT	ATTCTATAAA	ATATTACAAC	TAATAGTGGA	TCCAAGCCAG
92761	CACACTCTGC	TATATAAGAT	TAATTGACAG	TGTCCACACT	GGTAAAATAA	GTTGTTTCAT
		GAATTCATTT				
		GTTTTGCAAT				
92941	AGTGCTGCTT	ATATGTGACC	AGTTAGTCTG	TTTTACTTAT	CTATGCCTTA	AACATTACTA
93001	TACTTACTAA	CTCCAAGATG	CCTGGTCTCA	ACTTGACAAA	AATACCCCAA	GTTGGGAAAT
		ATATGTAGAT				
		ATGGAGATAA				
93181	TGAGAGAGAG	AGAGGAATAC	ATGGTGGCTC	TCAGTGTCTG	GCTTAGGCAG	TAAACACTTT
93241	CGTTAATAAA	GACGGAAAAT	AAAAAAGGAA	TAATTGGTGT	CTAGGGGAAA	ATAATGAGCT
		CACTCTGAGT				
		AACGTTCCGG				
93421	GAAAAGGTAT	GGCCATTCTG	GAAAACTGTT	TGGCAGTTTC	TTAGAAAATT	AAACATGTAC
93481	TAACAACCCA	GCAATTGTAC	TCTTGAGCAT	TTGTCCCAGA	TAAATGAAAA	AAAAAAAAAG
		ACACAAAAAC				
		TGAGATGTCT				
		ATGCTTAGCA				
93721	TGAATCTCAA	AGGAATTAAT	GCTGAGTGGG	AAAAAAAGCA	CATCTCAAAA	TGGTATATAC
		TATTTACTTA				
		CTGTGTTTTG				
		AAGAGCCTTG				
93961	AGGAATCTAC	ATGTGATAAA	ATTGTATGGG	TCTACATACG	CATACACACA	AGAGCATATA
94021	AAACTGGTGA	CATGTGAAGA	AGCTCCGCAC	ATTGTGCCAA	CATCAGTATC	CTAGTTTCAA
		CAGTTATACA				
		ATATATTTT				
		ATCAAAAATT				
94261	TGTTAATATC	TGCTATAAGA	CTACTGAAAA	TGACAGTTAT	GCAAGTATAA	GCTCAGAGAA
		CCTTCGTAAA				
		GGGAAGGGCT				
		ACAGCCTCTT				
94501	TCCAAGAGAG	AAAATGGATA	GATTAATTTT	TAAGAAAAAA	AAAAAAACCT	CACCAATTTC
		TTGCACCTTT				
		GTTCAAGGCT				
	COLOCUCACION	GIICAAGGCI	GCAATGAGCT	AIGAIIGAII	GIGCIAICGC	ACICCAACCI
94681	GGAGTACTAA	GCTAAGAGCT	AAGAACACAG	CTGAGAGCGG	AGAAGAAACA	AACAAATCTG
94741	ACCAATAACC	CCCACTCCCC	TCATTTTACT	GGAGTGAGCT	GAGACTGCTG	GCAAACATGG
		AGCCTGAACT				
		GAGAAAACAA				
24271	1GG1GAGGGA	TGGAAGACAT	IGIGATATAT	CAAAGGCAGG	CTCATTTAAA	ACTCAACCCA
94981	AATTCCAAAC	AAAATATATA	ATTGAATATG	TATTAATGCC	AAAGGAGCTT	GAGTGAGCTT
95041	TAGCACAAAC	CCCGCCCTCC	AGCCCCCACC	CAAAAAAATC	ACTCTGTTCT	CTCCCCATTC
		ATACTTGCTG				
		TACACTGCTA				
32101	AGAACICIAA	IACACIGCIA	GCAGGAATGI	AAAAIGAAGC	AICIACITCA	GAAAACCATT
95221	TTATCAGTTT	CTAGAAAGTT	AAACATAGAC	CCACCATGCA	GCCCAGCCAC	TCTACTCCTA
95281	AGTATTTACA	CAAGAGAAAT	GAAAACGTGT	CCCCACACAG	TTGTATTTAA	AGGTGATGGT
95341	TAGCCTTGTG	TGTCAACTTG	GCTAGGCTAT	AATACCCAGT	TACTGAATCA	AATAGTAATC
		TGTGAAGGTA				
		ATTGCTCTTG				
		GTAAGGTTTC				
95581	CTCCTGCCTG	AGTTTCCAGT	CAGCCAGCCA	GCCTAAAGAT	TTGCTAGGCA	TTATAATCAC
		TTCTTAAAAT				
		GTAATAGCCA				
		TTGTGGTATA				
		TAAACACATA				
		ACTAATACAT				
		TAGTAACAAA				
96001	GGTATTGTAG	AGTATCTGAG	AAAGGACAAC	TGGATAAAAG	GGGGCACAAG	AAAACTTTTG

96061	. AGGGTGATTG	ATATGTTCAT	TATCTTGTGG	CATGGTTTCA	TAGGTGCATA	CATATGTCAA
96121	. AACATCAAGT	TATACACTTT	TAAAATGTTC	AGTTTACTGT	ATATCTATTA	TACTTCAGTA
96181	. GAGAGGAAGG	AAGAAAGTGG	GCAGGGTGGG	GGAGAGGAAA	GGAAACGAGG	GAGGAAAGGC
96241	CCTAATAGGA	AGGATTTTGG	ΔΩΤΤΤΔΩΔΤΤ	ΤΤΑΝΑΝΤΟΙ	λλλασλπαππ	TCACACTCTA
96301	GGCATATGAC	CAATATACCA	TOTITACACTC	1177777777777	CCACCAACMC	AMCHAMCHM
96361	. ATACTTTTAA	CTCAACCATC	A CTCCATTAT	CARAMANCCA	AMCOMMISSIO	AIGIAIGITT
96361	. AIACIIIIAA	GIGAAGGAIC	AGTGGATTAT	CAACTCCCTA	ATGCTTTGCC	TCTCTATGAC
96421	TGGCTGCTGT	CCTTCTCATC	CCAATACTCC	TTCCAAAGCC	CCTTGCTTAA	ATGTAAGCCT
96481	TCTTTCCTCC	TTTCAACACA	TCCTGCATTC	CGTGACAAAA	TAAGTTTTCC	TTAAACAGAA
96541	TGTACAGCAT	ATTATTTGTA	CAATTAAAAA	TTTTTGGCCA	GGTGTGATGA	CTCATGCCTG
96601	TAATCCCAGC	AATTTGGGAG	GCCGAGATGT	GTGGATTACC	TGAGGTCAGG	AGTTCGAGAC
96661	CAGCCTGGCC	AACATGGTGA	AACCCTGTCT	СТАСТАААА	TACAAAAATT	AGCTGAGTGT
96721	AGTGTGGCAG	GTACCTGTAA	TCCCAGCTAC	TCAGGAAGCT	GAGGCAGGAG	ΔΑΤΟΘΟΤΟΙΟΙ
96781	ACCTGGGAGG	TEGAGGTTEC	TGTGAGCAGA	CATCACACTA	TTCCATTCTA	CCCTACCACA
96941	CAGAGTGAGA	CTCCCTCCCC	ADADDADIDI	ACAMMMMMMMM	TIGCALLCIA	GGCIAGGAGA
06001	CENCENTARIA	CCCCCCCCC	COMMICCOM	ACATTTTTT	TTAATGTTTC	CTCCTTGCCT
0.0001	GTAGGAAAA	GGCTCTGACT	CCTTAGCCTG	GGCATCAGAG	CTCTATCTAA	ATGGACTTTA
96961	ACCTGATTTT	GTGGCACTAA	TTCCATTGCA	GTACTTGTCC	GCTCACTGGC	CTGTGCCTCT
97021	CTGCCACTAT	TTTTGGAATA	ATGTCCTCTC	TCCATCTTGT	TTACTCAACT	ATATCCAACC
97081	TCTAAGGCTG	TGCTCCTACA	AAGCCTCCCC	TGGCTACTTC	AGCCCACAGA	GATATTTAAC
97141	TGCTCTGCAG	TTCAGGACAT	TCTTCTGACT	CTTTAAATCA	CATTTACTTA	TATATGATCT
97201	TGTGATATTT	TTTGTTGACG	TGTTTACTTT	AATTTTCTTC	CATAACCTAT	TCATTCAACA
97261	AACTCAACAA	TTATTTATTA	AATGCCAAGT	ΤΑΓΑΔΑΔΑΤΑ	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	ΤΔΤΔΤΔΩΔΤΤ
97321	ATAGATATGT	ΨΨΩΔΔΩΨΨΨΨ	ATTTCCCAAT	CTCCAACTAC	חיית איית איים איים איים איים איים איים א	A TATA TATA CALL
97321	ATATCTGTGA	TIONATITI	ATTIGGCAAT	CCAMCCCCAA	AAAAAIAAII	ATAATGIGGI
07441	CACCACACAM	A CCMCCA A CA	AGIGCAGAGA	CCATGGGGAA	CATAATCCAG	CCTGGAAGTT
9/441	CAGGAGAGAT	ACGTGGAAGA	AAGGACGTCA	GAGCCTTTTT	CCTACAGGCA	TGGAAGAAAC
9/501	ATTAAAAAAA	ATTTTTTT	TTGAGATGGA	GTCTCACTCT	GTCTCCCAGC	CTAGACTGTG
97561	GTGGTGCGAT	CTCTGCTCAC	TGCAACCTCT	GTCTCCCGGG	TTCAAGTGAT	TCTCCTGCCT
97621	CAGCTTCCCA	AGTAGCTGGG	ATTACAGGTA	CCTGCCACAC	ATGGATGATA	AATATGATCA
97681	TATTTTCTTG	TTCTTTTCCT	CCTCAGTTGT	CTTCCCTGAA	GAAAGGAATG	CCTTTTATAG
97741	ATGACAAACT	CCCATTCTCA	AGAACAAGGA	TTTTTGACCA	ATTTAATTTA	ATCAGATGTC
97801	TGGCTTTGAC	CTAGAAACAC	AGTCACGAAA	CTTGGTGATT	AGAGACCAAT	TCCCAAACAT
97861	GAGCATTTCT	TAGGAAACAC	AGTAAAGATC	TGAGAGACCC	AAGAGCAGAA	GGGCGAGAAA
97921	CCAAAAGCCA	TCAGTTTGCA	TAGGAAACAC	CTTCTTTTACC		ייים איייייייים אייייים אייייים אייייים איייים אייים איייים אייים אויים אייים אייים אייים אויים אייים אויים אייים אייים אייים אייים אייים אויים אייים אויים אייים איים אייים
97981	ACTCTATTAG	TCACTACAAC	TATTTTTCTCA	TTCCTTTCCT	CAMACAMACA	TWITITUTE
99041	CCTTCATTAA	CANTITICANC	ACCAMCCMCM	CACHCAAAAA	GATAGATGGT	TTAAAACAAG
00101	CCIICAIIAA	GAATIGICAC TCCCAATTATA	ACCATGGTCT	CAGTCAAAAA	CACCAACATT	TTTATTGGTA
98101	TTGACAATTA	TGGGAATATC	CAATTCCAAG	AAGACAAGGA	GACCTCTGAA	CTTTCTAAAT
98191	GAAGACTCCA	ATCTTCCTGA	TCTGATGGGA	AGCAGCTTGG	CAAGATTACC	AACCACCACC
98221	ACAGAGAGTG	GACTCTAAGC	TAAGACTTAA	AAGATAAGTA	GAAATTATCC	AGGTAAAGAT
98281	GTGTACAGAG	AAGGAAGTAC	ATCCAGGGGA	AAAGAACAAT	ACGTGCAAAA	GTACGGAAAT
98341	GGTAAAAAGT	AATACTACAT	AGTCAAAGCC	AAGCAGAGTT	CAGAAGGGAT	CTGGTGGTGA
98401	AAAATACGGC	TAGAGAAAGC	AGCAAGGATT	GGCTTCTAAA	ACCTATGTAG	TATCTTGGAC
98461	CTTACCCTAA	ATGTAATGAG	AAGCTTCTAA	AGAATCTTTC	ATTTATTCAT	TCATTGAACA
98521	AATATTTTGA	GGCTTTCTGT	GAAGAACATC	ΑΨΨΟΨΑΔΟΨΑ	CTAAACATAC	ACCACTCAAT
98581	AGGACACATA	ΔΔΔΤΟΟΤΔΟΔ	TCTCACAGAA	TTCACATTCC	ACACACCCAA	ACCENCACAA
99641	TAAATACATA	AAAAAAAAAAA	TOTOGORDAN	CAMMMOACAC	AGAGAGGGAA	AGGIAGACAA
00701	177777777777	ACCHANGCA	CACCCAAGAI	GATITCAGAC	AATGGTACGT	ACTGTGAAAA
20701	AAATGAAACA	AGGIAATGGA	CAGCGAAAAG	GCACTGGAAG	GAAGCCTGCT	TACCTTTGCA
98/61	TGGTTAGAAA	AGATCTCTCT	AAGAAAGAGA	CCACATGTGA	GCTGCGACCT	GAAGGATACC
98821	GAGAAGCTAG	GTGTGCAAAG	ATGTGGGGAC	AGAACTTTTG	GACTGAATAG	CAAATACAAA
98881	TGCCCTTGGG	TGCAAGCTTT	GCCTGTTCAA	GGACCAAAAA	GAAGGCCAGT	GTGCCTGCAG
98941	CATACTAAGC	ACAGAGGAAA	ACACTGTTAT	ATGCTGAGAT	TGGAATTATA	AGTAGAGCCA
99001	GATAATATAG	TCTCTTATAG	GTCATAATAA	GGCAACCAGA	TTTTATTCCA	AGAGGATTTA
99061	AAAATCACTG	GAGGTTTTGC	ACTAGGGTGA	GAGGTGTGAT	TTGTATTTT	AAAAGATAAT
99121	TCTGGAGAAT	TAACTATAAT	GAGGTAGGAG	TAAACTAAGT	TAGGGGCTAT	ТТСАСТСССТ
99181	CAGACAAGAG	ΑΤΑΑΤΟΘΤΑΘ	СТТАСАСТАС	CATACTACTC	CTACAAATAA	ATTA A A A CTCC
99211	CACTCTACTT	TCCCCCCTACA	ChChymyymy	CCDDDCCDDD	AUCCAUCAUA	WYWAYOTOG
00201	AAAAAAAAAA	1 GGGGGIAGA	GICIAIAAIA	GGIIIGGIII	ATGGATCATA	TATGAGAGTA
99301	AAAAAAAGAA	AATAAATTAA	TAATGGTTCC	TAGGTTTGTA	CCTGAGCAAC	TGAATAAATG
99361	GGTGCTGTGA	ATTGAGATAA	AGGAGATTGA	GAATCACAGG	CTTTGTTTTG	CAAATTAATT
99421	TTGAGAGGCT	TATTAGACAT	CCCAGTGGAG	ATTTCAGGTG	AGTGGAGCCC	ATTGAAAGGT
99481	AAGGGACAGG	GTCAGGTGTG	GTAGGTCAGG	CCTGTGATCC	CAGGACTTTG	GAAGGCCAAG
99541	GCAGACAGAT	CAGTTGAGCT	CAGGAGTTTG	AGACCAGCCT	GGGCAACATG	GGAAAACCCT
99601	GTCTCTACAA	AATATGCAAA	ATATTACCTG	GGCATGGTGG	CATATGACTG	TGGTCCAAGC
99661	CACTTGGGGG	GCTGAGATGG	GAGGATCACT	TGAGTACAGG	AGGCGGAGGT	TGCAGTGAGC
99721	CAAGATCTCG	CCACTGCAAA	CCACCTTACC	TCACACACTC	ACAACCTCTC	ΨΟΣΔΠΛΛΛΠΛ
99791	AATAAGAAAC	CTAACCCAAA	ACCA A A MODA A	TOUCHOUGIG	CCCVVVCCIGIC	TOWNTAWATA
22011	VCCCVCCCCV	CUNCAUCACA	MACIOANDODA	ACCECATCATT	AACCACCCC	TAGIATTTAA
77041	AGCCAGGGGA	GTAGATGAGA	TACTCAAAGT	AGGTGAAGAT	AAGGAGGCAA	TGAAGGCCTA
99901	GGACTCTGGT	GTACATTTAG	ATGGTTATAA	GAGGAATAGA	AACTGGCAAA	ATAAGTAACA
99961	CTGAGCACCC	AATGAGGTGG	AGAGGAAAGC	CAGGAGATGA	AGCATCATAG	AAGGCAAGAG
100021	AAGAAGGGTG	TCAAAGAGGC	GAGGCAGTCA	TCAACTTCTG	GGCAGTCAAA	TAATATAAGG
100081	ACAGAAAAGT	GACCATTGGA	TTTGGAAATA	TGATGAGCAC	TTTGAGTGGA	GTGTTGAGAC

100141	AGAAGACCAA	TTAGAGTAGA	TTGAGGAGAT	AACGAGAAAT	GAGAAAATGT	AACCTGCAAG
100201	CACAGACAAT	TCTTGAGAGA	CTTTTCTGTG	AAAGGAAACA	GACACAGAGT	CTTAGCATGT
100261	CTTGTCTTTC	TATGGGAAAT	GTAAATAGTT	TGAGATCAGG	GATAGTATTT	TATTCTGCTT
100321	TTTGTACCTC	TACATTACCT	AGCATAGAGC	TAGCTAATGT	GCACTTAAGT	ATGTTCTCAA
100381	TTCTTATCGC	CTGAATGACT	GGATGGGTGA	AAGAATGGAT	GGATGGATGG	ΔΤΕΚΔΤΕΚΔΤ
100441	GGAAGGATGG	ATGGATGGAT	GGAAGACTTC	TCATTTCCCA	ACAACACCAT	ACTOCATOCAT
100501	GAAATAAAAA	CACCACTCCA	CANACANCAC	TGAIIIGCCA	MARINGAGGA1	MCTGGTAGCA
100501	ACACCA AACH	A D C A C A C A C A C A C A C A C A C A	CAAAGAAGAG	TITAGATTTT	TATTCTTTGG	TGTCAGTTAG
100301	ACAGGAAAGT	AAGACATTAG	AAGAGTCCTT	AGATAATITA	TGTAATTGTT	CACTTAGGAT
100621	TTTTAAATGT	GATCACTGAT	ATTGGACATG	TTCCTAGTGA	AGCATTTTTG	GTGTTTCACT
100681	GGTTGAAGTT	AATAACTGTA	AAATTATTTC	CCGTTCAGGA	CAGAAAAACA	GAAAACTTGA
100741	AGCTCCTATT	AGAAAGTTCA	AGATTCTCTG	GGGTTCTTAG	GATTTACTGT	TCCCAAAACT
100801	CTGTCAAGAA	CAAGAAAATG	ACCTGTATAC	TTAACTGGTC	TAGGCAACAG	TGGAAAGACA
100861	ATTCTCAGAG	AAGATTTGTT	TTAAGAAGAC	ACTTTCCATA	GGAATCAAAC	AATAGCTTTC
100921	AGTGACTAAC	ATGGTAAGAC	ACAGGGTGTT	AGCTCTTTCC	ТТССААССТС	ΑΤΕΓΕΤΕ
100981	TACCTTACCT	TTCGACCCCG	ТСТТССТСАА	ΔΥΥΓΩΎΤΔΔΔΥ	ΤΟΟΙΙΙΟΟΙΟ	ACCAACCACT
101041	AACCAGCCTC	TECECAATTE	CTCTATACTT	ACCANACTURA	CAAMCCACAM	ADDUATED ACC
101011	CATAATGATA	A CTC A CTA A TT	ACCAAAMACC	CECAMACIIA	CAAIGGACAI	ATTTATAAGC
101101	ANAMCACMMC	CCTTCCCCCAC	AGGAAATACC	CTCAACTGAA	AATGAGAGAT	CATCATTTGC
101101	AAATGAGTTC	CCTTGCCCAG	GCAACTACTG	GGGAAAATGT	CATGCAAGCA	AAATTAATCT
101221	TTGAAATCCT	CCTTTTCCAT	TTTTTGTGTC	TTCCTTTTCC	ATAGGCACCA	GAAATATCAT
101281	GGTGCCTGGA	TCTCATCTCT	ACAGAAAAAA	AAAGTGATTT	GATAAACTGA	TTTATATTGT
101341	GTCCAAATGT	GATTGTATTT	TCAAAGATAA	CCTAAGGGGA	GAATGCTGTC	TGGCCCAACA
101401	GCAGGCTCTC	GACTTCATTT	CAGACACTGT	GGCCAATGGC	TGGGAAACAG	GTATGAACAG
101461	TAGGTTTCTG	AGTCCCCTGG	AATTATTCCA	TTTATGTAGC	CACCTCCATG	ACAGGAAGCC
101521	TCCCTACTCT	TACTTCCCAG	ͲͲͲϾͲͲϹΔͲͲ	CATGGCACCA	CCTTCCACAT	TA A A A TTTTCC
101581	TCAGTGACCT	ΨΨΨΔΨCΨλλΨ	AATCTCTTAC	CHIGOCACCA	MANANACHAC	AACCCACAAA
101641	TGCTCATGGT	A TA COUTO TO A C	CACAMMOMOC	CIICIICICI	1 AAAAAAG 1 AC	MAGGGACAAA
101041	ATTENDED	CAMMUNATARC	GAGAIIGIGG	CICICIATIA	ACAGTATTTA	TTCAACAAAC
101701	ATTTATTGAG	CATTIATATG	TGCATCATGC	TAGGGACTGG	AACCTAGTAA	GTGTAGCACA
101/61	TATTATTTCA	TTTAATCCTC	ACAACAAACC	CATGAGGTTG	GTTTTATGAT	CCCAATTTTT
101821	CAGAAGAAGA	AACTGATATT	CAGAACCAGT	TAACTAACTG	GTTCAAGGTC	ATGCAATTTC
101881	TAAGATACAG	AACCAAGAGT	CAAAGACATG	ATTTTAAACC	AAAGCTTTTT	CTGCTACTCC
101941	ACATTGCTTC	CCTAGGTGAG	ATCTGAGGCA	TTCCGCGAAA	AGAGAAGGGT	CATAAAGCCA
102001	AGGGAAGACA	AGCTTAGGAA	AAAAAAGGGA	AATGTCCTAA	ATAAACAGCT	TTCCTATTTA
102061	CCAGAAACCA	CTAGTTTAAA	AATATAATGG	GAAAAATCCT	ATTCACTTTA	ACAATGTTAA
102121	AAAAAAAAA	GATAGAAGAA	ACATAGGGAT	ΑΑΑСΤΤΑΑСΑ	$C\Delta TTTGT\Delta GG$	ΔΤΔΤΩΤΆΛΛΩ
102181	AAACTAAAAG	ATGTTAATAA	TGGCCTAAAG	ΑΔΑΔΑΔΑΔΑ	TTACATGTAT	GGGGAGATAG
102241	ACCATCTTAC	TCCATTCTAA	TATTTAATAC	TOTAL CONCINE	CCAMMMCCCA	CCAAAMMAAM
102211	GTATACATTT	AATACAATCT	CANACCANAM	ATCHERACCAA	UCATITUTOA	CCAAATTAAT
102361	AAMMACAAAA	MMMA COMCCC	AAAACGAAA1	ATCTTAGGAA	TIGCTIACAA	ATTGTCAGAT
102361	AATTACAAAG	TTTACCTGGG	AAATATAAGC	ATATATGAAG	AGTGAATGGG	ACCCCACCAC
102421	TCCCCCCAAA	ACAAAAAAGG	TCTGAAAAGG	ACAGAAATCA	AGGAGAGTCT	TGCCTGCCAG
102481	ATACAAAATT	CTATTATAAA	GGTGTATTGA	TGAAAACAAT	TTAATACTAG	TGTAGCAATA
102541	GGCAGCAAAG	CAATGAAACA	GCATAAAAAG	ACCAGAACTA	TACCTAATTA	TGATGAAGAT
102601	TTAAGGTATG	ATAAACATGA	CATAATTCAA	ATCAGCAGAA	ATTGGCATAG	ATAGGGTTAA
102661	GACAAATAGC	TAATCATTAG	AGGGGAGGAA	GGAAAGGAGG	GAGGATAAAA	TTAGGTTCCT
102721	GCCTTCATCT	TACATTAAAA	TAAATTCCAG	ATGTATTACA	ТТТАААТТТ	ТТТААААААА
102781	GAAACCACAA	AATACTTGAA	GAAAATATAA	CTTCTTATAT	Δαπαππππαλ	TCCCAATTTT
102841	TTTTTTTTC	AGAGACAGGG	TCTTCCTC	TCACCTACCC	TACACTCCAA	TCCCATCATC
102901	ATGGCTCACT	CCACCCTTCA	ACTICITIES	TCACCIAGCC	CTCCCACCTC	ACCCCCCCCC
102301	CHACCACCAA	CEACACCAR	ACTUCTOGGC	TCAAGTGATC	CTCCCAGCTC	AGCCCCCCAG
102901	GTAGCAGGAA	CIACAGGCAI	GCGACACCCC	ATCCAACTTA	TTTTTTTATTT	TTTGTAGAGA
103021	CAGGGGTCTT	GCTTTGTTTC	CCAGGCTTAT	CTCGAACTTC	TGCCTTCAAG	CACCTCAGCC
103081	TCCCAAAGAG	CTGGGCTGAT	GGGACATTTT	TTAACATAGT	GCCACATTAC	CATAAATGAA
103141	AAGCTTGTAA	AATACTAATT	TTTAAAACTA	ATATATATCA	GAAATTTTTA	TAAACAAAGT
103201	TAAAAAGCAA	ACACAAAAA	TTTGTAGCAC	TTATGACAAA	TATATGTATA	TATATGAATA
103261	CAAAAAGAGC	CTTTACAAAA	CAGTAAGAAA	ACAATGAATA	CTCCCAATGG	AGTATTCAAA
103321	ACTAAACTGC	TAAAAGCAAT	TCAAAACAAA	AAACATAAAC	TATGCATATA	TGTATGTGAA
103381	AAAGTTTAAC	CTTATCAAAG	AAGTAAACTC	TCAAAGAAAT	ΑΑΑΓΑΤΓΔΔΔ	ΤΑΑΚΚΑΑΑΤΑ
103441	GCCTTTTCCC	ACAAATAACC	ΔΔΔΔΤΟΤΟΤΔ	ΔΕΔΔΤΔΕΤΕΙ	CCTCCCAATC	יייייר ארטאאזא
103501	TAAAAAAAA	СУДСУССФУ	CTTCCCCVTC	TAATTACIGA	JCIGCGWHIG	TIICAGAAAA
103561	TATTTATAGG	CCAGGGACCG	TITOGGCAIG	THE TAKE THE	ACCA CERENCO	ACTITAAAAA
103301	CCCCMCCAMC	A C C T C A A C T C	ACCACMMMC-	CIAIAATCCC	AGCACTTTGG	GAGGCCAAGG
103621	CGGGTGGATC	ACCIGAAGIC	AGGAGTTTGA	GACCATCCTG	ACCAACATGG	TGAAACCCTG
103681	TCTCTACTAA	AAATACAAAA	ACTAGCCAGG	CATGTTGGCG	TATGCTGGTA	ATCCTGGCTA
103/41	CTCGGGAGGC	TGAGGCAGGA	GAATTGCTTG	AACCCAGGAG	GTGGAGGTTG	CAGTGAGCTG
103801	ACATTGTGCC	ACTGTACTCC	AGCCTGGGCA	ACAAGAGCAA	AACTCTGTCT	CAAAAAATAA
103861	TAATAAATAA	AAATAAAATA	TTTATATACT	CTGACCCATC	AATTTGTCCA	GCATAATTAG
103921	GCATGTGTAC	AAGGGTTTAC	ACACAAGAAT	GCCTATTGCA	ATATTGCTTT	TAATGCTAAA
103981	AAAAATTGGG	GAAAATGCTT	TAAAAATATA	GATTAAGACT	GTACATTGTG	GTACAGTCAT
104041	ATAATCAATA	GTATACAGCT	ΑΤΤΑΤΤΤΑΤΤ	TTCAGCCACT	GTCCAAAATA	TAGCCTGGCC
104101	TAACAACATT	СТСТТАССАТ	ACGCAAGCAC	CGTGAGCACA	TCDCCCTACATA	ACTATCACTC
104161	TTTCACACCA	CACCACCAAA	CCTDNTNNCC	THUS AND COM	TOUGOTATAN	TOTATOROIG
T03101	1110HOHOOM	0100100111	CLIMATMACC	LICAMIGGCI	TITAAAGAAG	LAAAAAACAA

104221	AGGCAAAATT	CCTTAGTCAG	CCCTTAAGAC	TCTCTGTTAC	TTAGCTCAAA	CTACCCTTTT
104281	CAACAACACT	GCCCTAACCA	GGATGAGTTT	TTTGCCCCCC	TGGAGTACAT	TCAGCCTTTC
	CTTATCAAAC					
	TTTAGCATTT					
	CTAGCTTTTT					
104521	GTTTTTACTG	TTTATTACCT	ACTCAATAAA	AATTTTCTTT	TTTTGAGACA	AGGTCTTACT
	CTGTCGCCTA					
	GCTCAACAGT					
	TACCCCACTA					
104761	CTGGTCTGCT	GATCTCAATT	GATCCTCCCA	CTGTGGCCTC	CCAAAATGCT	GGGATTACAG
	GCATGAGCCA					
	TTCTTTACAC					
104941	TGATGGGTTA	ATCAATGTGT	GAAAATATTC	AGAGCCACCA	AAAACAGATA	TTATGTCTAT
105001	TCTCATCAAC	AATCAAAATT	GAGTAAACAG	CCATTTTCTA	ATACAGGAAA	CCACAAAACA
	TTGAATGGTG					
	CAAGTTAGCA					
105181	TTCTTATGAA	GGCTGTCTTG	ACTGGATCAC	ATTTTTATTG	CTGTTGGAGG	TGCCAAATGT
105241	GTGTGTTTAT	GCTAATCCTC	CACCTCAGGC	AACACACAGT	CAAGGATCCT	ACCAAGTGTT
	ACCGTCAAGT					
	GACATATTCC					
	GTCATTAATC					
105481	GGGTCTTCAC	CAATTTACTA	GATCATAGTT	GGAGAAAATC	TACAAAGCCT	TGCTCCCTTT
105541	AGATTTAAAC	AGGTCTCCGT	TTAAATTTAG	AATTGCTAAC	TTCAAGCGGG	CCCTTATGCG
	ACAGTATGCC					
	CCTTCCCTCT					
	ATCTTGTTTC					
105781	CTACTGCCTT	ATCTAGCCCT	GTACCATATA	CTTTGCATTT	CCTCTCATTA	CCATGGATGT
	ACTGCCTATC					
	GCTCTTACCA					
	ATCAAGTTTT					
106021	TTTTCAATGC	TCATCATCAC	TGGCCATCAG	AGAAATGCAA	ATCAAAACCA	CAATGAGATA
106081	TCATCTCACA	CCAGTTAGAA	TGGCAATCAT	TAAAAAGTCA	GGAAACAACA	GGTGCTGGAG
	AGGATGTGGA					
	ATTGTGGAAG					
	AGCCATCCCA					
106321	ATGCACACGT	ATGTTTATTG	TGGCACTACT	CACAATAGCA	AAGACTTGGA	ACCAACCCAA
	ACGTCCAACA					
	TGCAGCCATA					
	CATCACTCTC					
106561	AGGTGGGAAT	TGAACAATGA	GAACACTTGG	ACACAGGAAG	GGGAACATCA	CCCACTGGGG
106621	CCTGTTGTGG	GATGAGGGGA	GTGGGGAGGG	ATAGCATTAG	GAGATATACC	TAATGTTAAA
	TGATGAGTTA					
	CACGTTGTGC					
	AAAACAACTA					
106861	CTGTGTTTTA	TGTTGTTCCC	CAGCTTAAGA	GATCGTTCTC	CAGATCCCAC	TGCTCCTTCC
	AGTTGTCACC					
100901	GATTTCTGTC	CCCAGGICCC	CICCCICAGI	TGTTTTGAAC	ATAATCATTT	ATATCATTTA
	TCATTTTCAC					
107101	TGTCACCTAG	GCTGGAGTGC	AGTGGCATGA	TCTCGGCTCA	CTCCAACCTC	CGCCTCACGG
	GTTCAAGTGA					
	ACACCTGGCT					
107221	ACACCIGGCI	AMITGUILLG	2722277272	TGIGIGIGIG	101111111	IIIIIIIIGGA
	CAGAGTCTCA					
	CTCCACCTCC					
107401	GGCATGCACC	ACCATGCCAG	GCTAATTTTT	TTGTATTTTC	AGTAGAGACC	AGGTTTCACC
107461	ATGTTGGTCA	CCCTCCTCTT	CAACTCCTCA	CCTCDDDTCD	TCTCCCCACC	TCCACCTCCC
	AAAGTGCTGG					
	ACGGGGTTTC					
107641	GCCTCAGGCC	CTCAAAGTGC	TGGGATTACA	GGAGTGAGCC	ACCATGCCTG	GCCATAAAAC
	TGCCCTTTGT					
	CTCGGCCAAC					
	CAGTATACTG					
107881	TTTGGGGATT	TGAAGGTATG	TTGCATTTTG	CTATTCAATG	AATAATGACA	AGTAATGATC
	ACTTAAGACA					
	GGGGCATATT					
100001	GGGGCATATT	CCMITICCAG	TCTGACTGTT	CIGIGIAATC	TITGTATTCC	I I GGCAGCCC
	CTTTTATATC					
108121	AAATACAGTT	GAACTTTTGG	CTTGACTCTT	AGCTGAACTC	ACCAAAAATA	ATTTCTGTAA
108181	GAGACTGAGA	CGTCTACGAG	TAGGTTTTTC	AGAATTAGTA	AACATAAATC	AAGGATACAC
	AGGTAGATTT					
					IIIIIII	OT OTHER PERSON

108301	TGTATCTTAT	CTGGCAATTC	TACCTGGTAC	AGAACTAATC	CATTCTCTTG	AAAGATCTTG
108361	ACTCTGTAAT	AAGTTCTTTG	GTGATGGAAG	GGAGGTATTT	CTGTAATTAG	AGTCACTGTC
108421	TTCCTCCCAG	TTTTTTATCC	TGGCCCAGAT	CTGCAATGAA	CACACGACAG	AATCCAGGGG
108481	GGATGAAGAT	GGGTGCTTTG	CAGGAAAAAA	AAATTAAAAA	CATCTGAAAA	AGCTTTTGTA
108541	CTAAAAGAAT	GTGATCTAAA	AAAGAAAGCA	GGAGAACTTT	CTGTCTGCAC	TTTACATCAG
	AACAACCTTG					
	CCAGGACCAG					
	AGTAAGGCAT					
	GGCCAGACTT					
	CATGCTTGGA					
	TGCATCATAT					
	ACCCCATAGT					
	AAAAATAAAC					
	TGGAGCAAGA					
	GTTTTGTTCT					
	AGGGTACATG					
	GCTGCACCCA					
	GTCCCCCACC					
	TGTTTATGTG					
	TCACTTGCTT					
	CCAAGGATTT					
	CATGAGTGTA					
	GCTGGCGCGC					
	TTCTCCTGCC					
	AATTTTTGTC					
	CCTGACCTCA					
	ACTGCGCCCA AATGAAATAT					
	TCACAAGTGT ATGGCAAATT					
	TGGACTCCTT					
	GGATTGGGGG					
	TCAGGCACAA					
	GACTCTTTGT					
	ATTTCTTTGA					
	TGCTGTACAG					
	GAGGCTAGCA					
	TGGAGTGCAG					
	CTCCTGCCTC					
	TTTTTGTATT					
	TGACCTCGTG					
	CGTGCCCAGC					
	TCAACATAAT					
	ATTCCAGGTC					
	ATCCACCTAT					
111001	AATGTACACC	TTATATGTGT	TGATGGATAT	CTGCCTGTAA	CTTCCATTCC	CCTAAAATGT
	ATAACATCAA					
	TGTTGCAGAC					
111181	AGTTTGGCTT	TTTTCATTGA	CACAGGAAAA	ATAAAGAATT	GGAAGGTCTT	TCATCAGTCA
	CTGAGCCAGC					
	TAGATTGCTA					
	CTTTCCTCCT					
	TATTGAACTC					
	GTTTAGTGCT					
	CCAGTCTCAC					
	TGTTATCTCT					
	CACTGTCCCA					
	TATGTTATTA					
	TGGCAATGGA					
	TACGAGATTT					
	AGAGACCATC					
	AAAGAAGCAA					
	TTTACTAAGT					
	CAACTTTCTT					
	ATGACCCTAT					
	ATTTCCACCC					
	TCTATTTTCA					
112321	TTGTTTTAAA	ATCATGACTC	ACTCAACAAA	GTTATAAGAA	TAAGAATAGT	GTTACAGAAT

110001						
112381	TGGTATACAC	AAGCTGACCA	TAATCAACAC	ACCTATTATC	ATTTTTTTGC	GACAGGTTCT
112441	CGCTGTCTCA	CCCTGGCTGG	AGTGGAGTGG	CATGACCACG	GTTCACTGCA	GGTTTGAACT
112501	TCCAGGCTCA	AGCAATCCTC	CCACCTCAGC	CTCCCACATA	GCTGAGCCCA	CAGGTGTGTG
112561	CCACCATGTC	CAGCTAACTT	TTTAATTCTT	TGTAGAGACA	GGGTCACCCT	ATGTTGCCCA
112621	AGCTGGTCTT	GAACTCCTTG	GCTAGAGAGA	TCCTCCCTCC	AAGGTCCCCC	AAAATGCTGG
112681	GATCTCAGGC	AAGAGCCACC	ATECCTECC	ΔΥΔΔΥΓΔΔΥΔ	CACTTTTAAC	AATCCTACAA
112741	TGTTATATCA	CATCCATACT	TOCCIGGCC	CUCAACCAAA	CHCCCCHCHC	CCUMAMMCMA
112741	CAMAMAAACM	GAIGCAIACI GAIGCAIACI	TCAGCACTAT	CICAAGCAAA	CIGGGGTGTG	GGTTATTCTA
	CATATAAAGT					
117861	GTGCAGCAAG	GTCACTGGGG	CTGTCATCAA	GGGCCTCTCC	TTGCACTCTT	GCCAACCCTG
112921	TTTCTTGATT	GTCTCTACCA	CCATGAGTCA	CCAGCAATCT	CCCACAGTCA	CTTGTTTAAA
112981	AGTTCACAAG	TATTGTGTGA	ATTGCAGGCA	ACCCCTTGAC	TCCCTGATTG	CCTGGTCTTC
113041	TTCCTTGGGC	TCTACCATTT	TTTTTCCCCA	GCACTCTTTC	TGCTGCTCTA	AATTTTAATT
113101	CATGCAATTC	CATATGTGTT	TCTCTATCAT	TCTTCATCTC	TTTCCTCTCC	CTTCCATCCA
113161	ATTTTGTTTG	TCTGTTTGCT	TGCTTGCTTG	CTTTAATACA	դդդՀդՀդդդ դ	TCTGAGAAGG
	CTTGAGTCCA					
113281	TTCATAAATT	λλητοτοιοιο	AACTCCCCTC	ACTARCARAC	CANATCCACA	A CEC A CA CEA
113201	AAAGGGGCAC	ACACACAACA	CARAGICCCCIG	CACCOMOMM	MAMAIGCACA MAMAIGCACA	AGICACAGIA
113401	TTATAGGAGA	TCCAGGAGAA	ATGAAGTGGA	AAGGGAAGTG	TGTTGAGTTA	CTATACAACA
113461	CAAGAGTAAA	CTTTCTTATA	AGTGGTAATT	TTTTTTTACA	GGAATAATTG	AAAATGGAAA
113521	TTACCTTCTC	TACTCATAGT	AAGTACTCAG	TGCGTTCTTG	ATGGGATGAG	AATGTGTTTG
113581	AGCTTTAGTG	TAAGGCAGAA	TTCTGTTTAG	TCTGCCAGTA	TTGGAGAAAA	ATAAAACACA
113641	AAGGGACTGA	CATGTAGGAA	GTGGCACCTG	GGAGGGTCTC	AATTCTTCCT	ATTACAAAAA
113701	TGCCCCAGAG	AAATAAAAAG	CTTGTGTACA	TGTTGAGATG	GGAGAGTTCT	CTGGCCCCCC
113761	TCGCAGGATG	TGTGACAGTG	GGGTGGCTCT	CTGCTGCGCC	ACCATGAGCT	CAAACCCCTC
113821	ATAGGAGGG	GAGCACACAG	CCACCAACCT	CCACCACCTC	CCCCACCTCT	TTCCCCTCTC
113881	GCCCGTGGT	ACTCTCTACA	CCTCCCTCCC	TCCAACTCCT	CAAACCCCAA	CMCCCCAMCM
113001	GTTACAGTGC	ACIGICIAGA	CERTOGGIGCO	TGCAACTCCT	GAAAGCCCAA	GTGGGCATGT
113341	UNCOUNCE OF A	ACTOTTOAG	CTTTGCTGTC	TGCAGCTTAA	GCGTTAACCA	GCTCAGTTTC
114001	TTCTTGGTAC	CCAGGTCCTT	GTCTGGCATC	CAGGAAGAAT	CAGGTTACAC	ATGGACTTGA
	AGGATGAATG					
	GCTGGAAGGG					
114181	GATCTCCTCT	CCAGTCGTCC	CCAGCCTCTC	GACGTTCAGA	TGCTCCTCTT	CTCTCCTTCT
114241	CTGCCATGCT	GTTCTGCCGT	TCATCTGCCT	GTCTCTCTCT	GGAGCCTGGA	ATTTGGGGTT
114301	TATATGGTAC	ACAATAAGGG	GCATGGCAGG	CCAAAAGGGA	ACTTTTTAGG	TGCAAAAAAC
114361	AGGAATGCCT	CTTCTCACTT	AGGGCTATAG	ATTTTCAGGC	TTGAAGGTGG	GGCCTTTACC
114421	AGCGAACCTG	TATTTCCCTG	TCTCCTGTGC	ATATCAATGT	AATCAAATAC	TEGECTEATE
114481	CAGGATGTTT	CTTTAGACCA	ΔΤΤΔΤΕΘΕΤΔ	ΔΔΩΤΩΔΤΤΤΟΙ	CATTCACCTT	TOTOTOTIC
114541	CTTTTGTCAT	ጥጥርጥጥጥጥጥ እ	CCNATCATCT	עעעעעעעעעעעעעעעעעעעעע	TACCACACHA	TIILLIUITIIG
114541	GCGAACCTAA	TICITITIA	CACAAACMMA	AAAAIAICIA	IACGACAGIA	ATAGATGATA
114001	CCUTATION	11AAAA11AC	CAGAAACIIA	AGAATCTCTA	ATGATTTCAA	CTGTAACTAA
114001	GGTTATTTCT	CTTTATGTTG	AACAATGTTG	GGAGATAAGA	CACAAGAGTT	TCTGAAGTAT
	TTCAGAAACA					
114781	AAAGCTAGTC	ACAAAGTTAA	ACGAGTGGTT	ATTTTAATAT	TTAAAATACA	GGCTTGGATG
114841	TATTTCCTGT	TAAAGAAAAT	AAAATGCAGA	ATATTCAAAA	CGTCTGACCA	CCCTTCTAAG
114901	AAAATGCATC	TCTGAGGTAT	TTTTCCTTAG	AAGTTATTGT	AAAAATCCTG	GAGAAGCTTG
114961	AACACAGCAA	AGCAAACAGG	ATGCAGAGTT	TAATCTGTGG	AAAGCTTAGG	GAAGAAAAGC
115021	AAATCATTAA	AAATAGGTCT	TCCTCTGAAG	ATTTTTAAAA	CGCAAAGAGG	GTGGAATAGC
115081	AATGATAATA	AAAAAGCTGG	СУДОСОСТСТ	CCCACAATTT	CCTCTCCCAC	TCACCTCACT
115141	GGATGTGTTC	TCAATTTCTA	CCCATTACTC	TACCTTTCCA	CACCCATTCT	CCCTTTTAAAA
115201	AAAATGCCCA	CACACTCTA	ACMEMMENTA	TACCITICCA	AAMAACCCCA	CCCITIAAAA
115201	MACACAAAMM	CACACIGAAI	ACTITITION	IGCAATITAA	AATAAGCGCA	CCATCTAGTT
115201	TACAGAAATT	CACTAGAAGT	TATTTATCCT	AAAATAGCAG	AGATCTAGAA	GAATTTTGAG
115321	CTCTAGGACA	TTTTAGACAC	ACAGAAAGAA	GAATCTGGAC	AAGTCTTGAC	CAGACATGAC
112381	AGAATAGAAA	TTTCTTTTCC	TATTTATCTC	TTTGAATAAA	ATTTTCAGGA	TCTTACAGTG
115441	GACAAGTTTG	TTATCTACAC	ATTGTGAAGC	ACATTGATTT	CTCCTCTGTA	GCCTTAGGAA
115501	GATCTGAGAG	GTGACTGAGC	TGATTGAATG	ATCCGTGACC	GCTCTACTGG	GACCAGTAGT
115561	AGAACTTTAC	TGGTGGAGAC	CTGCTGGAGG	TTTGAGAGCA	GACTTTGAAA	ATTACTAGAG
115621	CTACACAGAT	ACTGTGTGGC	TAACTGGATT	ATGTTTAGAG	GCTTTCAGAA	CTATGCTGCT
115681	GCTGCTGCAG	TGTAGCCAGG	ACGCACAGAG	AACATCTAAG	GCTCTTGAAT	GGGGCGATAG
115741	GGACAGATTT	CAGCAGCCAT	CTGACTTCAC	ТССТСАТТТ	GATGCTTTCC	CACCACCAC
115801	CAGTGTGCAG	TGTGCACTCT	GCACTCCTCC	GAGGCTCACA	CACCAATACT	TCCHCCGIG
115961	GCCCTAATTT	CCCCTTCVVV	CACAGIGGIGG	ACCUMCA CAC	ADDCHMAIACI	TGCTTCTGTA
115001	TTT CTTT CCC	TTCTCCCCTT	MCMCMM2 MCC	ACCI IGACAG	ATTOTTTCCT	I GGCCAAAAT
115001	TTAGTTAGGC	A COMPONE	TOTOTTATGC	CCACCTGCAG	ACTITITGGT	AAAATCCAGT
112381	TTTAGTAAAG	AGCTCTGCTA	AGTCAGTTTA	GCAAGAATCC	CCACCTCAAA	AGTCACTATC
116041	TCCCTCCCTG	GTAGTGTCTG	GCTTGTCTTC	AGCGAGAATT	CTATTAGGTT	CTGTTAGATT
116101	AGAATCCTCC	TTACCCTTGA	TGCTTCCTCT	TAGTATTTTT	TCATCCACTG	ACTCCTTGAC
116161	CCACCTTGCT	CCTCGGCTAT	AAATTCCCAC	TTGCCCATAC	TCTGCAGTTA	AGACTATTTT
116221	CTCCCCACTA	CTGCAAAATC	CCATTGCCAT	GGTCCCTATA	CTATCTCAAT	GGTAATGAAT
116281	AAAGTCTGCC	TTACCATGCT	TTAACAAGTA	ACATTGAACC	ATTTTTTCT	TTAACAATCT
116341	GCTGCACAAT	GAGATTACTA	AAACTTTATT	CCATTTTCCC	ATGCTGGATG	TCCTCAATGG
116401	AATGGCTCTT	GTGAGCACCA	AATCATTGTG	AGAAGGAAAA	CCCATCTCTT	ACAGCCCCCT
		or or occordion		" O'R TO GUNUM	COCATOTOTI	1,10000000001

11646	L GTAACGTGAT	' GTATGTTACA	TGTGATGTAT	GTTACATAGT	TTTTTTTCAT	GTTGATCACT
11652.	L TTTTGCCCAT	TTTCCTATAT	CTTATCAGTT	GGAAGACTGT	' GGAAGTTTGT	AGTACTAAGC
11658.	L CACAAGATGA	CTAAGAAGAG	TTGAAAGGGC	AAGTGGGGCT	' AAAAACAGAT	TTTGTTTGAC
116641	TTACCCCACC	: ATTCCCCCTA	TCATGGGGCT	GAATCTGCCT	' GGAGGAAGGA	GCATCTTTAT
116701	L CTTTGTACTO	TGAACCACAC	: AGTCTAGCAG	CAGCACAGCC	AAGGCACTTG	GGGTTTCATG
116761	L AGACTAAGTA	CATGCAATTC	: TATTGTAAAG	GCTTAAAATA	TATACAACTG	ACCCTTGAAC
116821	l aacatgaatt	' TGAATTGCAT	' GGTCAGTTAT	ACGCAGATTT	TCTTCCACCT	CTGCCACCCC
116881	L TGAGACAGTA	AGATCAATCA	ATCCTCTTCC	TCCTACTCCT	CAGTCTACTC	AAAGATACTT
116941	l GAAGTCTACT	' TGAAGATGAC	AAGCACAAAG	ACATTTATGA	TGATCCACTT	CCACTTAGTG
117001	L AATAGTAAAT	' ATGTTTTCTC	TTCCTCCTAA	TTTTTTAACA	CTTTCTTCTC	TCTAGCTTAA
117061	. TTTATTGTTA	AGAATACAAT	' CTATAATACA	TATGACATAC	AAAATATGTC	TTAGTTGACT
117121	. GTTTATGTTA	TCTGTAAGGC	TTCAGGTCAA	GAGTATGCTA	TTAGTGGTTA	AGTTTTCGAG
117181	. GAGTCAAAAG	GTGTATGTGG	ACTTTCAACT	GCAGGGGGGT	GGGCACCCCT	GCCCCCATGT
117241	. TGTTCAAGGG	TCAACTTTAC	TGCCAAAGGC	AAGCCTTTAC	ATCCACTTTT	TCCATCCCAT
117301	. CAGTAAATGG	AAAAAGATAG	CTACAGTATC	CCTGCGTCAA	ATCTTTTTT	TTGCAGATCA
117361	. CAAATTGGCC	ACTCACCTTG	CTCTGTGAGG	GGTAAAATGC	CCCACTTTCT	TTAGTAATAT
117421	. TTAAGTTAGA	. TAATATTTAA	GTTATAAAGT	TGTTCTTTGT	AATCGTTAAT	TGTAATTTTT
117481	. ACATAGTTTC	TTTCAAACAG	AAATAGCATT	TTTGTTAGAT	AACCTCCCGT	ATAGATGATG
117541	. AAACTCCTTT	TAAGGGCTAT	CTGAATTTTA	ATTCCTTGAA	AAGGCAGAAA	TTGGATAGCT
117601	. AGTAGTCATA	AATGTACTGT	GGCTTCCCCC	AACCATCTGG	GCTATATAGA	AGCTGCATCC
117661	. TTGGACTGCA	GTAGAGGAGT	CTTACAAAGC	ACAGAGCAAC	TTCTCTCCTG	GGTTGCGCTA
117721	. GTTATGATGG	CAATTTTAAA	TGTGTACTTT	TACCCAAAGA	AAATCCTTAT	TATCAACAAT
117781	. CACAATGCCA	TCATAACCAT	GGTATAAAAA	ATTCAAAATG	TCCCAGCTGA	AGTGGAGGCA
117841	. AAGACTCAAG	TTCATGGAGT	CAGAGTTTCC	TTGCTATTCC	TCTTTTTCAA	ATGACCATTT
117901	AGTAAGCACC	TGAAGAAAAT	ACTATGGACG	GCATTGAAAA	GTGAAGATAG	GTTTAATCTT
117961	. CTCGAAAATC	TAATTCTCCA	GATGAAACGC	TGACACTTAT	CCACCCCACA	GACCCTATAG
118021	CAGATGTGTC	ACTGGCCATC	ACATTTGACA	CAGAGAAGTC	ATAACTCAGT	CAGCACAGAG
118081	ACATTTCCAT	GAGTTTCTGA	ACCATGGACA	GAACGTCGTC	TGTGGGACAT	GAAAACTGGA
118141	ACTTAGAGGA	CAGGCACATC	TGAGAAATGG	GCAGTTTAAA	GGCAGAACAT	AGCACATATG
118201	TGACTGGGTT	TTAGAAGCAA	ATTTACAAGA	CGCACTCTTC	TTCATCCTAA	ATAATCTGCA
118261	ACCAAAGCTT	CCAAAAAAGA	CAATTTAGGA	ATGCAGAGGT	GAGGAGTAGG	GAGGGGAATG
118321	GGATGAGAGA	GAGTGGAGAT	TAATGGTGGG	CAGAGCGAGG	TTTAGAACTT	AGTGGTTTCT
118381	TCAGGTTCTG	AACTGAAATT	TGTATACTGT	AAAGGCACAA	ACACCATTTT	TAACAAAAGT
118441	GAGCAGGACT	TCCTATCTGG	TTCAGAAAAT	AGGTGAATAA	ATAGTACGAA	TTATTAAAAA
118501	TAATAATTTC	CACTTATACA	TAGGAAACTT	GATAGGAACC	ATGATAAATG	CTTAACTCTT
118561	AATCTTCAAG	GAACTCTGCT	AGGGATATAA	TATTATAAAT	CTTGTTTTGC	AGATGGAGAA
118621	ATTGAATTTT	AACCCAAGTT	ATCATAACCC	TTAAATGATT	AAATGATACT	GTTACATGAG
118681	AAAGCTGCGT	ATCTGTTTCC	TGGATTTGTA	GCCATAATTT	GTGTCTCAAG	TCCCTTTTGC
118741	TGCCAGCTAT	CTTGGGTAGG	TGTGTTCCCT	TTGGGCTGTT	TGATACCCCC	ACATTTATCT
118801	TTTTTTTTC	TCTTTTTTTG	TTGAGAGAGT	CTTTCCCTGT	TGCCTAGGCT	GGAGGGCAAT
118861	GGCGCGATCT	CGGCTCACTG	CAACCTCCGC	CTCCTGGGTT	CAAGTGCTTC	TCACGATTCT
118921	CTTGTCCCAG	CCTCTCTAAT	AGCTCGGATT	ACTGGCATGC	ACCACCACGC	CCACCTAATT
118981	TTGTATTTT	AGTAGACAAG	GGGTTTCTCC	ATGTTGGTCA	GGGTGGTCTC	AAACTCCTGA
119041	CCTCAGGTGA	TCTGCCTGCC	TTGGCCTCCC	AAAGTGCTGG	GATTACAGGT	GTGAGCCACC
119101	ATGCCTGGCC	CCAAATTTAT	CTTTAATGCC	CCAAATTATC	TAGTTCCCAT	GACTGGGCTT
119161	CTGCTTTGAT	CCTTTCTGCA	CTTGCTGGAC	CCTCTCCCTG	GGAAATGAGA	TTGTGTCCTG
119221	AGCCCCTAGT	TAGAGGCTAT	GTCTCTGCTG	TTCCTGAATG	GGCCTCCTGG	ATGAGACCTC
119281	ATTAAAAGTC	TAATTCTCTT	GGAGAATTGA	GAGATACCTA	TTTGTCTCAA	AATCATTGAA
119341	ACCAATTAAT	GTATTATGAG	CCTCTATCCA	GTGATTTGTA	CCTCAATTCC	CCAATCCAGC
119401	TGTCAAGGCC	AATTTGTTCT	ACCTTACCTA	GTAGGTAAGT	CTGGAATTGT	AGCTGTGGCA
119461	TTTTCAGTAA	TGGTACTCTA	GGTTAGCAGT	CCCCAACCTT	TTTGGCACCA	GGGACCAGTT
119521	TTGTGGAAGA	CAATTTTTCC	ATGAAGGGCT	GGGCAGGGGA	GTGGTTTCAG	GATGAAACTG
119581	TTCCACCTCA	GATCATCAGG	CATTAGATTC	TCACAAGGAG	TGCGCAAGCT	AGATCCCTCA
119641	CACATGCAGT	TCACAATAGG	GTGTGCACTC	CCATGAGAAT	CTAACACCGC	TGCTGATCTG
119701	ACAGGAGACA	GAGCTCAGGC	AGTAATACTC	ATTTGCCTAC	CGCTCACCTC	CTGCCGTGCA
119761	GCTCAGTTCC	TAACAGGCCA	CGGACCAGTA	CTGGTCCACG	GCGCAGGCAT	CAGGGACCCC
119821	TGTTGCTAGG	TATAAGCATC	TGGCTGCTGC	ATGTCTTCTG	TGTAGCTACA	TCTGTATGTG
119881	TATCTGATGA	GATATAAATT	ATTTGATTAT	AAATTACTTT	CTTCATATTA	GAGTTGTGAA
119941	TGAGTATCAC	ATATAATTAT	ACATAAACTA	GGAATATGCT	TTTTAATAAT	GTATATAAGT
120001	AAGTTTCCTT	AACTATGACT	TTCATCTTAG	CGTAGTAAGA	GGGTGCTAAG	AAATATTTGT
120061	GATGAAAATA	GGCATTGGTA	GAGTTGAGAC	CACTGGGTGA	TGAAAGAGTG	TAAAGATTTT
120121	AAAGCCTTCA	GATGCTGGTT	CAAGGTGAGA	AATGTGATTG	GGAGCAAATC	AATTAACTTC
120181	TTGAAGTCTT	ATAGGGCAGT	TATGAATACT	TAATGTTAAC	ATATGTAAAG	CTCTTCTGCC
120241	CTGTATACAG	TAAATGCTAG	TTAGCTATTA	TGATCACTAC	TAAAATGGGG	ATGACATAAA
120301	CCTCATAAGG	TTTTAAGTAT	TATGCAAGAT	ACTATACAAA	GTCCAGTAAA	TATCACATTC
120361	AATTGAATCC	ATGATGTCCG	ATTATTTTAG	CTACTTCCAA	GAGAGAAAA	AATGCTGTCA
120421	GTTTTACTGT	TCTTATAGAG	AGCAAGGCAG	ATCCCAATTC	CCAATGTGGT	AACGTGAAAA
120481	TTTTTGCATT	TGAATCAACA	AAACACTTTC	TCCTTTCTTT	CCTACTATTT	AACAACTGGT

10054						
12054	1 AAGTCTATAC	TCCCCCAAAI	CTGGAATTCT	CCTTTCTTAT	TCTTTTTCCT	CCTACCAAGA
12060	1 CCGCAGGATO	TTTTACTTG	G CTATAAGGGG	TAAACCTCA	A GTAGTACAAC	TTCTCTGTAT
12066	1 TACTTTTATA	A CTCTGTCACE	A GATTCCCTTT	GTTTCCTCAT	CTCCATGTGA	A ATTTAGTTAA
12072	1 ATTCTCAGC	A TTCTGATCCT	TACTATACAA	GGTAAATGA	A TATAAAAACA	AAACGAAACA
12078	1 AAAACCTCTT	CCTATTTAC <i>E</i>	TAAGGCCCCA	ACCTAATATT	TAGTGATATA	TATTAATGTG
12084.	i aacaaggaac	TAACGAAGAC	C TGGGAAGAAA	TTCACAGACT	TGAGAGAAG	ΔΑΤΟΘΟΛΟΘΑ
12090	l TTTCCTGGG <i>F</i>	ACAATTTCAT	' GTAACGTCAA	AGGTGGTAAZ	Αροποδοδο	CAATCAACAT
12096.	l GGAGAATACC	GGATTTTCTT	` ACAAAATGAT	' TTCCCAGGAG	ATCTCATCAZ	ATGCACGAGG
121021	1 ATACCTTCTC	AGTTTCACCT	' AGTGAGTAAA	AGACTGGTAZ	CATACCTCAC	TTACAATTTC
12108	I GATAAACAAA	ACTAAACAAA	CAACATCAAA	ATTTCAGAA	AAATAATAGO	ΤΑΑΑΑΓΑΓΑΑΑ
12114.	L TCAAACACTC	: AAATTTTTGG	TCCTTCTGTT	TATTTCATTT	TGGATACTCA	СТСААТСТТА
121201	l ATTAACCAGO	AAACTTAAAA	GTTATTTCAA	TTATGAACCT	CTTCAATCCT	TCATCAATTA
121261	I TTTTGAGTAT	TCTGGTCTTA	AAAACATCTC	ТТТСТТСТАС	· AAACTTCTCA	AAGAGATGAA
121321	LCACCTCCACC	TACACCAAAA	TAATGTGCTT	TGCTGGCCA	ADGTACACCT	' CCATTTTTAC
121381	l TTAACAGTCT	' AAGGAAAGTC	TGGTGCAAAT	ТАСТАТААТА	ATCTCCCTTC	TAAATGGTTT
121441	LCTGAGGTGAG	AATGAGATCA	TATTTTACAA	AAAGTTTTTC	' ACTACTOOTIC	' ACAAGCTTAC
121501	LAAAACTCAGA	CCACTCACCA	GAAAAAAATC	CCCATTILL	TACTACTIAGE	' ACTTTTGGTT
121561	TCCTGCATCT	TTTCACATCT	GGCTCATTTA	CATCATTALA	. TUGIIGIGII	ACTITIGGTT
121621	L TAGCTACTAC	ATTAGGTAAG	GTTACTTCAT	CAICAIIIIC	, IICMICIICC	TCTTGAAAGT
121681	GAATTTCTT	GGACCCTCCC	TTCALCAL	THAT CACCAT	ACIGITATAA	CCACAACCAA
121741	GATCCAAGAC	TTTTTTTCCC7	CCNNNUUUCN	CTTTTCCCCTTT	TAAACCIGAT	GCCAGAGCAA
121801	CAAAGGTACA	TTTTTTCCCA	TTTTACCCTC	CONCARA	TGTGAAATAA	GCCAGGAGGT AGATCAGAGT
121861	GAGAAGAAA	CCTTTTTCAA	ACTATION TO THE	CECCATAAAC	ACCTGTAATC	AACAAGATGG
121921	TTTTCACTAC	TCATAACTTA	ACIAIGIIII	A A COMOGRAPA	GTTCTCTTTC	AACAAGATGG
121981	CTAACAGCAGC	CTTTTNNNTCT	MUNCCONUNC	AACCTGGTAA	TGTTTCTATG	ACTTTATTTT
122041	CTAACATCTT	TCCCTCCAAC	TIAGGCATAG	CATGCTCTTT	GGCAGCTCTC	AAGGAGGCT
122041	GTTTTCCATG	A CCTCCAME	TICCTIGAAC	TGCTGGCTGC	ACTGAGTGGA	CTGTCTGTGT
122161	CTTGAGAGGG	TCCACAACAT	TCCATTGACT	TATGTTCCCA	CAAGTGATCC	TGAGGCAAGT
122101	. CAAATTGTTC	TGCAGAACAT	TTTCTGTCCC	TCTCTTCTCC	TTTTTGACTT	TCTGAGACTG
122221	ACAGCTCTTT	TGAGGAATCC	AGGGTCAAAG	CTCCATCTCT	AATGGGTGTT	AATTCATTTT
122201	. CCAGATGGTC	TICIATAGIG	AAATTAAACT	GAAAGGTCAT	CCTCTTATTA	AATGCACACA
122341	ATCTTTAAAT	TCAGATTCTT	CAACTTCTGG	ATAGAATTTG	ATGATACACA	CAAATCTGCC
122401	TCAATTATTC	AATTAGTTTT	GTTGGGCCCA	ATTTCTCTTT	AGCAGCTTAT	ACATGGTAAC
122401	AAATATTTAG	AGATATTTCC	AAATGACTTT	TTAGACGTCT	TTGGTCCTCT	TTCCAAGCAG
122321	CTCTGGAAAG	AAAAAAAAAA	AAAAAAGAAA	GAAAATGATG	ATTAAAGCAA	AATGGCACAT
122301	TTCACTAAAG	TGTAATATTA	AACAGCCACC	CCCACCCCTC	CCTGTCCCAC	CATACAGCTG
122041	CTTTTTCTTA	AAAAGTTGTG	GGGAAGAGAG	AGAGATAAGA	GATTTGGACA	CTCATACACA
122701	CCTTAAGGGT	TCCAAAGTGG	GAGAAGAAAA	TCAACTATAA	AAACAAACAG	AAGAACAACA
122/01	GCAACCACCA	CCACTACCAC	CTGGACAAAC	ATAAAGTCCA	AGATATTCAG	ACAGGACAGC
122021	CTAGCTACTT	GCTGTCTTTC	AGCTGTCTTG	ATTTGTGTCC	AACCATATTC	ACCCCCTAAG
122001	CTTCCAGAAT	AACTTCACTT	CTGTCTTTTA	CAGAAGAGGT	GCAGTATTTT	ATTTTGGTAA
122941	GTCAGCGTCC	CTTTAAAAAC	ATGCATAGGT	ATGGCCTGGT	GTGTGTAAAT	TCATCCAAGA
123001	CTTCACTCCA	AACATTTAGT	CGAGAACAGC	AGCCCTAAGT	GTATAGAAGT	GGGGGTAATT
123061	TGGCAATAAT	TAGTAAAGAC	TAATTCGGTG	GCAGAGCAAA	CGCAAACTAG	GGCACTGCAG
123121	TAGTTTGGAG	AGACCTGTAG	AAATAAGAAG	CAACTTTATT	GAGAATCTTC	TATCTACTGC
123181	GCTAGACACT	ATACCATCTG	CCTCAATTTT	CACAGTTCTG	GCAAGTGGGA	TCTTTGTTCC
123241	CTTTATACAA	GATTTACAAT	TTGGGGGAGA	GGCGGGTCAC	CCAGTCCCGC	GGCTAGGAAC
123301	GCGCCTCTT	CCTCTCCCCAT	CACGCTGCAA	GGCTTGGAGT	CACTTCCCCC	TCCACCTCCC
123361	GGAACAAATC	CGACCCCAGA	AGTGGGGACT	TCTGGCCCTC	ACCTCCCCAT	TTGAATGTAA
123421	TGTTTACAGT	GATCCAGACC	TGGGGATGCT	TGCTTCCCGA	CGTGTCCTGG	GATCGCGCTT
123481	CTGAAAAAGC	TCACCTCACA	ACGCCTCCTC	CGGACCTAAA	TCGCGCACCA	CTCACTCCAC
123541	TCCTCCAGGG	GCTAGAGAAG	CCCGACTTTC	TTTCCGGCCT	TGAGGGACCC	CCCCTCACCA
123601	AGAAACCAGC	CGCCCTCCTC	TCTATGGTTT	TGGAGCCGGC	GGAGAGCGCG	CAAGGGTTGG
153001	CGGGACTGCG	AGTTTCCGGT	CTGGGCTTTG	GCGGGTCTGG	TTTGAAGCTC	ጥሮርጥርጥጥጥርል
123/21	CGAAAGTATG	TCTCAGGAAG	GTGCGGTCCC	AGCTAGCGCG	GTTCCCCTGG	ΑΔCΔΔΤΤΔΔC
123/81	TAGCTGGCCA	GAGGAGCTAT	GCCGCCGGGA	ACTGCCGTCC	GTCCTGCCCC	CDCTCCTCDT
123841	ATCCTTCCTT	GGTTGTCACT	TCTACCTAGA	GAAGGGTGTG	GGCGGGTCGC	CDDCCTTTTCT
123901	CTTCTGTCCC	TTCAGACCCA	CCGCCAGGCT	GGGTTATATT	ACCGCGGCCT	GAACCCCCTC
123901	TTTTCTTTGT	CAGTGAGTGG	GATGAAAAGT	GAGGGACTGG	AGGGGAAGCG	ACAACCGTGG
124021	TAGATTTAAG	TAAGGCTTTG	GCCCTGGAAA	GCCTCGCGGA	CGTGTTCTGA	CCCAAGGTTTT
124081	TAGCAGTGGA	TGTGGCGTTT	TCTTCCATTC	CTTCTTTCAG	TTTTTTCTCTA	CTCGTTGCTT
124141	GCAATTAAGT	GTAAATACTT	TTGCTAGTGG	ATAATGGGGG	AGGCAAGGAC	TGAGACCTGC
124201	GGTATGACGA	TAGCTCTGGC	TCTTAATAGT	TTGAGGTAAA	GCGAGATACT	CTGAGCTTTT
124261	GTCTCCCGTA	AAAAGGGTGG	TGAATATGAA	TAAGGGCTTT	CTTAGCGTTA	ΤΔΔ CΔΔΤΤΔΔ
124321	AGGGCATAGT	TCTGTGGTGT	GAAATCTTTA	AAAGATGTTC	ΑGTAAATAAA	ΔΔΨCΔΨΨΨΨC
124381	CTCCTTCCCC	TCTCAGACCT	CTTTTTCTTC	TTTCTTTCTT	TTTTTTTTCAC	ΑΔCTTCTCΔC
124441	TCCTCTCACC	CAGGCTGGAG	TCTTTCTGAA	AGAGTTCTTC	CGCTTGTTGT	ጥርርርርጥጥጥር አ አ
124501	CTGTTGGATT	TGAGGCGCTT	AGCGCCTTCT	TCGTCCGGGT	GCAGCACATT	$CTTC\DeltaTTCCT$
124561	CTCATGCCTT	TGTGGTTGTA	AATGTGCCTG	GAATCCTAGC	СТТТСАТССТ	AAACCATATC
						

124621	. TATATGTATC	TTTTTCACAA	CATTTGAGCC	CAGCTTTATA	CAATTACACT	CAAAAGAAAA
124681	. AAAGTAACCT	' TCACTTGAGA	GAATCTCAAT	' ACTGCACAAA	TATTGTGCAG	CTAAAGCCCT
124741	. ATGTAATCAC	: ATAGAAGTCA	TTCACCTAGG	CATTAGCAAA	ATCTCAGAAG	GTGCCAAAGC
124801	. CCCCTTTTTT	' AGTTTTTGTG	TAGGTACAGA	ACTGCCGTCT	TCAAGGAGTT	TCAACTTGAA
124861	AACAAATAGC	CACCCTCAAA	ACATTCAAAA	ACACTTAAAC	TGCGTGCATA	ATGTGTGTGA
124921	GACATGGTGT	TAGGCTTTGG	GAGAACAGAG	ACACGGAACG	TGATTCCTCT	TCTTCCCCAC
124981	AAGCTTATAG	AGAGACTTCA	TTAAGTTGAA	AGTCAACATT	CCCACCTAGC	TTTGCACTTC
125041	AAACGACATA	TTCAAAAAAG	CCCAAACTTC	CTCTAGTTTT	CTTCATCTGA	GTAAATGGTT
125101	TCACAAACTG	AAACCTTGAA	TCCTCTCTGT	CTCACACACC	CGATCAGTAA	GTTCTATTGT
125161	TTCTGATTCC	AAACTATGTC	TTGAATCAAT	CCGTTTATCT	CCATCCTCAT	TGCTACCACT
125221	CTGATTCCAA	ACCCTTATCA	CCTCTCACTT	GGAGTATTAA	TAGTTTCCTT	GTTTCTACTC
125281	ATAATTCATT	ATTCCAAAAA	AGTTAAGAGG	GGAAAAACAT	AGATCTCGTC	ATTTCCCTTT
125341	TTAAACCACT	TTACCTTCAA	GGTTCCAGGT	GATCTAAGCC	TTGCCCTTCT	CTCATACCTA
125401	GTTAATTAAC	TACACTCTGT	TCATGAATAC	ATTAGGCTCA	CCTACCTCAA	GATCTTTTTG
125401	CTCAGCCTGA	TITGTTCTCT	CAGCCTTTTG	CATATTTCAT	GTTTATGTCT	TGGCCCAAAT
125521	GTCACTTCCT	TAGAGGGGCT	TTTTCAGAGC	CTTCAATCTT	AGGCAGTTCC	CCCAAACGCA
1255611	GTCTTACACT	TGTATCACAT	TGGCCTGTTC	AGTTTTCTAA	AAAGCACATT	ACCATTAAAA
125041	GAAATGCTCT	TGTTTGCTTT	GTATATTTTC	CACTTCTACA	CATTATGTTG	CAAAGTTCAT
125701	AAAGGCAGGA	TGTTGATTTT	CTTCACAGCG	TTACCCTCAG	CACCTAGAAC	AGTGCCTGAC
125/01	ACATAGTAAG	CATTCATTAA	AGGGCTAAAA	ATATTTCATG	TTTTAAAAAT	ACTTGGGAGT
125021	CTAATTAGAC	AATACTTTT	TTCAGCTTAA	TGGTAGTATT	TTAGCTTCAC	TATTTTAACA
125001	AATGAAAAAT	TTGCAATAAA	TCTACAATGC	CATTACCCCC	CAAAATCTTT	TTCATGTTTT
125941	GCATTTTACG	TATTATTTTC	CAGGCCTTAC	CTGCATGTCT	GCATAATCAT	AACTGACTAA
126001	TTTTGGAACA	GCTGGTAATT	ATTTGAGCTT	TACTGAAATT	TTTTCATGAG	GCCAATTCTA
126061	CCCTACTGAA	CTCAAATTTG	AGTTAATGAT	GACCTCATTT	TGATTGCTGC	TGTAAAAAAT
126121	AAGATTTCGG	AAGAGGAATG	AATTCTTGTA	TTACTGTGGT	AGGACTATGG	GTTTTTTTT
126181	GTTTGTTTGT	TTGTTTTGAG	ACGGAGTCTC	ACCCTGTCAC	CCAGGCTGGA	GTGCAGTGGT
126241	GCGATCTCAG	CTCACAGCAG	CCAGGTTCAA	GTGATTCTCC	TTCCTCAGCC	TCCCGAGTAG
126301	CTGAGATTAC	AGGCACGTGC	CACCATGCCC	GGCTAATTTT	TTGTATCTTT	AGTAGAGATG
126361	GTTTCACCAT	GTTGGCCAGG	CTGGTCTCGA	ACTCCTGACC	TCGTGATCCG	CCTGCCTCAG
126421	CCTCCCAAAG	TGCTGGGACT	ACAGGCGTGA	GCCACCGTGC	CCGGCCGGGT	TATTCATTTT
126481	TCTTATTAAC	ATTCTTTGAT	GATTCTTATG	GTGTTGTTAC	AGTAAAACAT	TTCTAACAAT
126541	TATTCTAACA	ATTATTCTTG	ATGGTGTATA	TGAAGAATTT	ATTGTCGTGT	ATTTGTAAGC
126601	TGCTATGTGC	AGAAGAATTT	CAGTCAAATA	AAGTTGGTAA	GATAGGTATG	TAAGTAATAT
126661	GAAAAAAGAT	AGAAGGTGAT	GAGTGACTTA	GGTATAAATT	AAGTACAATA	GAAATGTTGA
126/21	GGAAAGAAA	ATTTCTTGTA	ATAGAAATCG	GAAGTACAAA	CTGGGCATGG	TGGTGTGCAT
126/81	CTCTAATCCC	AGCTCCTTGA	GAGGCTGGTA	TGGGAGGATC	ACTTTAGCCC	AGGAGCTTGA
126841	GGCTGCAGTG	AGGTGTGATC	ATGTCACCGC	ACTCCATCCT	GGGTGACAGC	AAGACCGTCT
126901	CTCTTTTTTT	TTTTTTTTGA	GACGGAGTCT	CGCCTATGCT	GGAGTGCAAT	GGCGCGATCT
126961	TGGCTCACTG	CAACCTCTGC	CTCCCAGTTT	CAAGTGATTC	TCCTGCCTCA	GCCTCCTGAG
12/021	CAGCTGGGAT	TACAGGTGTG	CGCCACCATG	CCCAGCTAAT	TATTTTGTAT	TTTAAGTAGA
12/081	GACGGGTTCT	CACCATACTG	GCCAGGCTGG	TCTTCAACTC	CTGACCTCTT	GTTCGCCCAT
12/141	CTAGGTCTCC	CAAAGTGCTG	GGATTACAGG	TGTGAGCCAC	CCCACTTGGC	CCCGAGCGAG
127201	ACCCTCTCTC	TAAAAAAAA	TAAATAAATA	AATCATAAAC	CTGTGGATTA	TTGTAGCATT
12/261	GTTTCTCATC	TGTCAAAAAT	ATTTCATGAC	TATGCATAGT	TTGAAAAGGC	AAGTTTGTCC
12/321	CTGGGCAATT	TTCAAAATAT	TTCTTTAATG	TGTTTTCACA	ATACTGTTTA	CCTAATAAAT
12/381	CTTAAGTTTT	TAAAAGCAAA	ATTAAGCCAG	TAATTTGAGT	CCAATTCCAA	TCTCTTATGA
12/441	GTCATTGCTT	AAATTTCAAA	AGGGTTTTAT	TTTTTTTTTA	GGTTTGTTCT	GAGTAATGAA
127501	TACCCTATTA	CTATGATACT	AGTATCTTCC	TTAATTATCC	TACTCATTGT	CTCAACATTC
12/561	TGACAGTTGG	ATTGAGCATA	TTCGTAAGTA	AAATTGTTTT	AACTGTATGA	TGTACTTTGA
12/621	TGTTAAGGTC	CGAGTCCCCA	CATACCTCGG	TAGATGTGTT	CTTACAGTTT	TGTATTCCCT
127681	TGAAATGTAA	CTGTTCTCTA	TGTTACAGCC	TTTATAACCT	TCAGTTACTT	GAAATGAACA
127741	AATTCATTCA	AATTCCAGCA	CTTAAAAGTT	TTAAATTACA	TTTTGGATAA	ATACCAAAGT
12/801	GTTTTGTTGA	TGATGTATGT	ATAAACAAAT	TGTAAATATT	AAACGTTAGT	TGTTACGATT
12/861	AGACCTATAT	AAAACATGAT	ATGCAGTCTA	CTGAATAGCT	ATCAGCCTCT	AACATGTTTA
12/921	GTGTCATTTA	GAAAATGCTT	TCTAAATTGC	CAAAAGCTGA	TTGTCTAGGT	GATAACAAAT
12/981	TTACCATTTG	GAGGAAGTTG	ACTTTCTCAT	TTTCATGTCT	TCATCAGTCT	TACTTGATGA
128041	GATTCATTCT	TCTAGTCAGA	AGAGAGTTTA	GACTGCTCAG	TTTACTCATA	TTTTGAGTTA
128101	GCTTTTCTAT	TTAGAGTTCA	CTTGGTTGTG	GAATATTCAT	TTATAATTTG	AATCTACGTT
128161	GTGTAATGGG	ACCTAATTTT	TTTTTCCTTT	GTTTTTGTTG	GAGTCTCGTT	TTGTCACCCA
128221	GGTTGGAGTG	CAGTGGCGTG	ATCTTTGCTC	ACTGCAACCT	CCACCTTCCA	GGTTCAGGTG
128281	ATTCTCCTGC	CTCAGTCTCC	CAAGTAGCTG	GGATTACAGG	CATGCTTCAC	CACGCCTGGC
128341	TAATTTTTGT	ATTTTTAGTA	GAGATGGGGT	TTCACCATGT	TGGCCAGGCT	GGTCTCAAAA
128401	CTCCTGAGCT	CAAGTGATCC	TCCTGCCTTG	GCCTCCATAA	GTGCTGGGAT	TACAGGCGTG
128461	AGCCGCTGAG	CCTGGCCCCA	GAGTTTGTTT	TGTTTTGTTT	TCAAGACAAG	ATCTCACTCT
128521	ATTGCCCAGG	CTGGAGAGCA	GTAGTGCGAT	CATAGCTCAC	TGCAGCCTGA	ACTCCTGGGT
128581	TCAAGCTATT	CTCCTGCCTC	CATCTTCTAA	AGTGCTGTGA	TTACAGGTCT	GAGCCATGAT
128641	GCTTGGCCTG	TGTTTTTGTT	TGTTTGTTTT	GGGGGACAGG	GTCTTGCTTT	GTCACCAAAA

128701	. CTGGAGTGTA	GTGGTGCGAA	CATAGCTAGC	TCACTGCAGC	CTCCATCTCC	CACGCTCAAG
128761	. CAATCCTCTC	: ACCTCAGCCI	' TCCAAGTAGC	TGAGACCGCA	GGTGCGTGCT	ACCATGCGTG
128821	. GCTAATTTTC	TATTTATATA	TTTATTTTT	' GGTAGACATO	AGGTCTTGTC	ATGTTTCCCA
128881	. GGTGGTCTTT	' AACTCCTGGG	CTCAGACAGT	CCTCCCGCCT	' CAGCCACCCA	AAGTGTTGGG
128941	. ATTACAGGCG	TGAGCCACCA	TGCGTGGCAT	' AATTTTTTTI	' AAGTAAATTA	TTTTTTTTTTT
129001	TTGAGTATAG	AAGTGATTCA	TGTTCATTGT	GGAAAATATG	AAACATATAG	AAAAACAGAA
129061	AAGATTACAA	AACATCTAAT	CTGAAATGGT	י יייייים מסבביייי	ATGAGAACAG	TCTCATCTCA
129121	TTTCCGTATA	TTCCTGCCAG	CCTATCCATC	' ATTCTTTCT		TACATTAAAA
129181	ТТССТСТТАТ	ΑΤΤΤΤΟΘΑΙΑ		ANCENCATEC	TOTAL CAME THE	TCATGTTTTA
129241	AAATGTCATT	TTAATCATCC	CITITIETT	AACIACAIIG	TOMACALLLL	TATTTAACTG
129301	CTCCACAATT	CTTCCATATC	TACCTCCIAI	CCMMMCMCMC	MACACACACC	TTTTTTGGCTA
129361	CTACTTAATA	CTTGGATAIG	, TWGGICGIII	CCTTTCTCTC	TTTTTTTT	TTTTTGGCTA
129421	CIACITARIA	. GIIICICIGI	ATAGAATGTG	GTATTTTGAA	AGTGTATCAA	GCTTTAGATT
120421	GGTAGTATTC	TIGCATTTAA	TAAAGGGCAG	TGGCCTTTGT	TGACTGACAT	GACAATATTT
123401	TTATAAAATT	TGTTATTTGC	TTTACAGAAA	TTTTGAAAAT	TATTGTAGAA	ATGTTTTTAC
129341	CTCATATGAA	CCACCTGACA	TTGGAACAGA	CTTTCTTTTC	ACAAGTGTTA	CCAAAGGTAT
129601	AATACTATTA	CCTGAAAATA	. CATGTTATAA	. GGAATCTAGC	CTCAGTCTTA	GATGATTTAT
129661	TATTAATTAT	GGCTCTCTTT	TTCTAATATA	. ТСАААТАТАТ	TCAAAATAAA	AATAAGGAGT
129721	AAGTAGATCT	CATGTGAGAC	TATAATGGTG	TTAGTGTGAT	CATTAGGCAG	TTAAAAACTG
129781	TTACAGGCTG	GGCACGGTGG	CTCATGCCTG	TAATCCCAGC	TCTCTGAGAG	GCTGAGGTGG
129841	GCAGATCATC	TGAGGTCAGG	AGTTCGAGAC	CACCCATGGT	CAACATGATG	AAACCTCGTC
129901	TCTACTAAAA	GTACAAAAAA	TTAGCTGGAC	ATGGTGGCAG	GTGCCTGTAA	TCCCAGCTAC
129961	TTGGGAGACT	GAGACAGGAG	AATTGCTTGA	GCCTGGGAGG	CGGAGGTTGC	ATTGAGTCAA
130021	GATCGTGCCA	TTGCACTCCA	GCCTGGGCAA	TAAGAGCGAT	GCTCCGTCTC	ασασασασα
130081	AAAAAAAAA	AAGAACTTAT	ATTTTCAGAT	TGTGTGGTTC	CTTTACTAAC	TGAATTTAAA
130141	TTATTTGTAG	TCAATTTTAA	ATGCTCTTGT	ATTTTAAAGC	CACTGTACTC	CACCCTCCCT
130201	GACAGAGTGA	AACCCTTAAT	TCAAAAAAA	ΑΔΑΔΑΔΑΔΑ	AAGAAAAGCT	CCAATATTCC
130261	CAAAATCAAG	TAACTAAGAG	AAAACATTAA	ATTCACAGAA	TACATTATTA	CATTTTACAT
130321	ATATATGGTA	TATGTTTTCT	CTGAAAAGCA	CAACCATACC	T11011111111	TANTCCACC
130381	GAACTAAAGA	TACTTTGGTG	ССАДАДТСАД	ACATTATTTC	T11111G111	CULTURE
130441	TGGGTTTCTA	ACTTTAGCTT	TCAATCCTAA	TOTTITIE	TAMILAMICI	CITATIGAAA
130501	TGATGATTCT	CTATCTCAAA	TATTTCCTAC	y y manacanaca	TOTTGIACT	CATAGICACT
130561	AACTGTTACA	TACATCAAAA	TECATEMEN	CTCTTAACAC	CCCUATICCCA	AAAAAGATTC
130621	TCTTTAGCTA	CATTCTATTC	TUGATGIIGA	GIGITAACAG	GCCTATGGGA	AACAGTATTT
130681	ATTGTTAGAA	ACATCCAACT	ATTRACIGICI	ACCOMOCOMA	ATAATGTTTA	GGTCATTTAA
130741	TITOTIAGAA	CCTCATTOTA	MANAGAICI	AGGGTGGCTA	ACTITICACA	GACAAAAAGC
130991	TTGTTTGTAA	COUNTRACTARA	TATACCCTTA	ATTCAGGAAG	GTTAGCTTGA	ATTGGGTCAA
130001	AAGGAAACTG	GITAGAAAAT	AAGTGAGTAG	TGAATAGGCG	ATTCAGTGCA	AATTCCTTCC
130001	AGAAAATACC	CITGTAAATG	ACTGTATGAA	TGTGGATTCT	TCAAGACAGT	CAAATTTATT
130921	GTGCGAAAGT	AATACTTTTA	TTTTTTGCAT	CTCTAAAACA	TGAACTTTGA	GTGATTTTTT
130981	AAAAAAATTG	ATGCTATTAA	ATAGATTCAA	ACCATAGAAA	TGGAAAATAA	ATTTCTGTTT
131041	GGGGCTTTTG	GGGGGATTAT	GTTGTAAAAA	TACCTTTTCT	CTGTATTTTG	TGCTTAATTA
131101	GGTACAATTG	TTAAGCTAGA	TGATAGCCTG	TGGATGTTAC	TAGTGCAAAA	TCAAATTATC
131161	GTATTGTGTT	TTCTCTGTAA	AGTTTTGTCT	TGTCTTTTCT	AGTGATTTCT	CTTATTCCTG
131221	TTTATTACTT	GATTTGTTTT	TACAGACTGT	GAAATTATTC	GATGACATGA	TGTATGAATT
131281	AACCAGTCAA	GCCAGAGGAC	TGTCAAGCCA	AAATTTGGAA	ATCCAGACCA	CTCTAAGGAA
131341	TATTTTACAA	GTAAGTCAAA	TGTATTAGAA	AGCAGGAGAG	AGAGGGAGCT	ጥለ አለር አለጥር ም
131401	CAAAATTTTT	ATACTGATAC	TGATTAGCTA	TGTATTCTTA	TGTAATGGCC	TAATGTTGGA
131461	ATTAAATTTA	TAGAATTAAA	GACGTGAATA	TAGAAACATG	AATTCTGAAT	AATAAACTCT
131521	TATAAGAAGA	GAAGTCATCA	AGCTAGCTGA	CCCTACCTGT	ATTTTCAAGG	ATATGTGTGG
131581	AACACCTGCC	ATGTGTTTTG	AAGTTTGTGT	TAGTATTCTA	AATGGCTAGA	CAGTTGTTCC
131641	AGTATTTGTA	GTTCTGATAG	ACTAAAGTTC	TGTGAAAAGA	GGAAGAGACT	CTCTTTTCTT
131701	CATTGCTGTA	TTTGTAGCAC	CCAGCATGCT	GACTAATACC	TTTTCACTCC	OIGIIIIGII
131761	TATTCTAAGT	GAAATTTCCT	TCCTTATTCA	CAGACAATGG	TCCACCTCTT	ACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
131821	ACAGGATGTG	TTCAGCATAT	CTCTCCCACA	CACCAAMCCA	TGCAGCICII	AGGAGCTCTC
131881	AGTCTCCCCT	CCTCAGTCCT	TCATATATA	AAAACCACAM	TCATTTTGGA	AAATATTCAG
131941	AAAGGTCTAA	TTATACTTCC	AATCCTATAATT	AAAAGCACAI	CATTG	TAAGGTGAGT
132001	ATCTTTCTAT	AACAMMMMAC	AMIGGIAIAI	AATCAATGTG	CATAGGGGCT	GAGTAAAATA
132001	ATGTTTGTAT	MAGAIIIIAC	ATTTTAGTCT	ATATTATTGA	AATAAACTTT	TCCATAGAAT
132001	AAAGAACATG	COCCERRENT	ATTGTTGCAA	AAAAAGTGGT	TTTAAGGAAG	TCATTAAAAG
132121	TGGCTTTTTG	GGGTTTTTTA	GTTTTATCTT	ATTTCCCCTC	TATAAAGAAA	GAAGTTTTAA
132241	GAATTTGTGT	TGAGACAGAC	ACAGGGATCC	TGAAATAGTT	ATGTCATGTT	GCATTGACCA
132241	ATATTCAATT	ACCATTATGA	TTAGATGTCA	GAACTTCCTT	TTATAAAGGA	AAGTTAATCC
132301	TTATTTAGTC	CATCTCTACA	TGCCAGAGGT	AGCCTTGAGG	CACAAAAGCT	TGCCTAGAAT
132361	TTATGGGTCA	CAGACAGTTT	TAATATTGCT	ATTTGTTGGG	CGAATGAAAA	TCACTAGTTA
132421	ATTAATACCT	CTCTTTGCTG	ATAGGATGCT	AAAAATGTCA	CGCACCTGGC	CTAATGTTAC
132481	CCTTTTTTAG	TTCTGTATTT	GCAAGATCAT	GGAAGTCAGA	AATAATATTT	TATACATGCT
132541	TGCATCTCTT	GAAGCACACT	ATATTTAATG	GATGTTCACT	AAACAATGAA	ТСААТАТСТС
132601	ATTCAGTAAA	TTTATGATCT	CTAATAGTAT	GAATTAAAGT	AAATTTGGCT	CTTGAGCTTT
132661	GATTTGTTTT	TTCTCTCATT	TTTATTTATC	CGTAATCAGA	ATAGTGAATC	TGTGTATTCT
132721	GGGTGTTTAC	ACCTAGTTTC	AGACCTTCTC	CAGGCTCTTT	TCAAGGAGGC	CTATTCTCTT
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	CAAAAGCAGT					
132841	GATGATATTT	TGAATATGGT	AATAGGTGAG	TGAAGAAAAC	TTTCTGCTTA	GTATATGGTG
132901	ACTATAAATC	ATGTATCAAT	TAAAATTGTC	TCTAATGATT	CATGTTATTT	TCTTACTAAT
	TATGCATTAA					
	TGTAAAATTT					
	CACAATGATT					
133141	ACTTTCACAT	TTTTTTAACC	ATAACTGATA	TTGAGATGCA	GTTTATATTT	CCTTCCAGAA
	TACATATAAA					
	TGAAATAACT					
133321	TTTTTTGAGA	CAGAGTCTCA	CTGTGTAGCC	CAGGCTGGAG	TGCAGTGGCA	CAATCTCGGC
133381	TCACTGCAAC	CTCGCCTCCC	GGACTCAAGC	GATTCTCCTG	CCTCAGCCTC	ATGAGTAGCT
133441	GGGATTATAG	GCGTCCGCCA	CCACACCTGG	CTAATTTTTG	TATTTTTAGT	AGAGACAGGG
	TTTCACCGTG					
	GCCTCCCAAA					
	TTTTAAAGAA					
133681	GAACAAGAGT	TTGAAAAACA	ATATAAAGGC	AAAGTTTGCA	TTCAAAACTT	TGGTATAAAG
133741	AGAGTAAGTT	GGTTTTGTGC	AGTGTATCAG	GCACCTGTTG	CTCTGCAACA	CACCACCTCA
	AAATCTATTT					
	ATGTCCTGAG					
133921	TGACTTCATT	CACATCTGGC	TGTTGGCAGA	GGCAGAAGTA	CTTGAGAAAG	CCATGTGCAT
133981	CATCCAGCAG	GTTCACCCTA	TCTCAGATAC	CTGATGCCAG	TGGTTTCAGG	GTTTCTAAGA
	GTAGCAAAAG					
	ATTTTATTAT					
	AAAAGTGTGG					
134221	ACTGAGTAAA	AGCCTTGCAT	GAATACCATG	GATATTAATT	TGAATTCTTC	CTTTTTAGAT
	TTTCTTTCCT					
	CAGTTATAAT					
	TGGTAGGTAT					
134461	ACACTTAAAT	AGTTTAAATA	ATTCTTTTGA	CACAACTGTT	TCCAAGTTGT	GTTACGTATT
134521	TTAATTCAAT	CAAATGTTGA	AATTGTTCAG	TAGATAGTTT	TAATTATAGG	AGAAACTCAC
	CCCCATGACA					
	TATTGGATAT					
	AGTTTATAAT					
134761	TCCCCAATCT	TAATTATTCA	TGATTCTTTA	GATTGCATTT	AAAACATTTT	GTGTGAATTT
134821	AATGTTCACT	GACACTGCTG	TCTGATAATC	CAGATATTCT	ACATGTAGCT	CTCAAGCCAA
134881	ATTGGACTTC	TTTACCCTGT	GGCCTCTAAA	ασαααασττα	ATGTTCTTCC	TAGTTAGCTA
	GTACTTCAGA					
	TGTTGTTTAA					
135061	TTAAAACTGA	ATATAATCTT	TTCATTAGGT	ACTTTTAAGT	TGTTCACACT	TAATTCCATT
135121	TGTACAGTAA	TTTTAACTTT	CTGAAACTGA	AGCATTTTAA	AGGGTCACCA	GGGATAGTGC
	CTGTAGCATT					
	TAAGAATATC					
	TAGGTACTTT					
135361	CTGGGAGCTG	TATCACATGT	GCTTAAATCC	ATTCTTGAAA	TCATTTACTC	CTTCTGAGCC
	CTTGGGCTAT					
	AATAGCAACT					
	AAATGTGCAT					
135601	GATTATCTTC	CACTCTTACC	CTCTTCCAGT	TCATTTTCTG	CCCAGCAGAA	TGATCTTTTA
135661	AAAAGTAAAT	CAGATCATGT	TACTCTATTG	CTTGAAGTCT	ATCCCATTTG	ATTAAGAATA
	ACAACCTAAT					
	ACTCTTAGTT					
	ATCTGCCTAG					
135901	TTTCAGTTCT	CAGCTTAAGA	GTTATATCTT	CATGATAACA	TTCTTTGATA	TCCTTACCCT
135961	AAGATTAAGT	TAGATTGATA	TCCTTACCCT	AAGAATAAGT	TAGATTAGGT	CTCTCTATTG
	TAGCACCTTA					
	TTTAACATTC					
136141	CATTTGTTTG	ACCCCTTTGT	CTCCAGGGCC	TGGTAGAATG	CCTCATACAT	AGTAAGAATT
136201	CAATTAATAT	TTTACACAGA	GAAAAAATTA	GCAACTTATT	TAAACAAATA	TAACTGCTTC
	AGAGGTAAAC					
	TTTTAAATGT					
	IIIIIAAATGT					
		wammammaa.				
	GTGGTGATTG			3003003000	mamaman na a	$C \Lambda \Pi \Pi C \Pi \Pi \Pi \Pi \Pi C$
	GTGGTGATTG ATAAAAAGCC		CAAAGATATA	ATTACTAGCT	TGTGTGAAGA	CALICITIE
136441	ATAAAAAGCC	AGTTGAAACA				
136441 136501	ATAAAAAGCC TCCTTCCATT	AGTTGAAACA CTTGTTTACA	GTTAGCTGAG	CAGATGACAC	AGTCAGATGC	ACAGGTAAAA
136441 136501 136561	ATAAAAAGCC TCCTTCCATT TTTGGGCTAA	AGTTGAAACA CTTGTTTACA TAGCATTTTA	GTTAGCTGAG AACAGCAACT	CAGATGACAC CTTATTTTCT	AGTCAGATGC TTGGCAGTTA	ACAGGTAAAA GTAAATCTCA
136441 136501 136561 136621	ATAAAAAGCC TCCTTCCATT TTTGGGCTAA TTTGAATGTC	AGTTGAAACA CTTGTTTACA TAGCATTTTA TGGGTCAGTC	GTTAGCTGAG AACAGCAACT TATTTAAGAG	CAGATGACAC CTTATTTTCT GATTTTAATT	AGTCAGATGC TTGGCAGTTA TATTTCATTT	ACAGGTAAAA GTAAATCTCA GGGTGTTTTT
136441 136501 136561 136621 136681	ATAAAAAGCC TCCTTCCATT TTTGGGCTAA TTTGAATGTC TTTTGATCTG	AGTTGAAACA CTTGTTTACA TAGCATTTTA TGGGTCAGTC TGGGATTATT	GTTAGCTGAG AACAGCAACT TATTTAAGAG TATATCCCAT	CAGATGACAC CTTATTTTCT GATTTTAATT AATTACTTTT	AGTCAGATGC TTGGCAGTTA TATTTCATTT CACCCAGAGC	ACAGGTAAAA GTAAATCTCA GGGTGTTTTT ATTGTATTAG
136441 136501 136561 136621 136681	ATAAAAAGCC TCCTTCCATT TTTGGGCTAA TTTGAATGTC TTTTGATCTG	AGTTGAAACA CTTGTTTACA TAGCATTTTA TGGGTCAGTC TGGGATTATT	GTTAGCTGAG AACAGCAACT TATTTAAGAG TATATCCCAT	CAGATGACAC CTTATTTTCT GATTTTAATT AATTACTTTT	AGTCAGATGC TTGGCAGTTA TATTTCATTT CACCCAGAGC	ACAGGTAAAA GTAAATCTCA GGGTGTTTTT ATTGTATTAG
136441 136501 136561 136621 136681 136741	ATAAAAAGCC TCCTTCCATT TTTGGGCTAA TTTGAATGTC	AGTTGAAACA CTTGTTTACA TAGCATTTTA TGGGTCAGTC TGGGATTATT GCTGTCATTG	GTTAGCTGAG AACAGCAACT TATTTAAGAG TATATCCCAT CCTCTGGGGT	CAGATGACAC CTTATTTTCT GATTTTAATT AATTACTTTT CTGCCTGGCT	AGTCAGATGC TTGGCAGTTA TATTTCATTT CACCCAGAGC CCCTCTTTGC	ACAGGTAAAA GTAAATCTCA GGGTGTTTTT ATTGTATTAG TTGGTAACTG

136861	TTTTGTTCAT	ATTTGTATAA	GATCTGATAT	AGCTGCAATC	AATCTTGCAT	TTTTTCTTCA
136921	CCAACGCATT	GCGACCTTTA	GGGATACAAG	TATGTTTGTG	CATGTATATG	TATGTATCAG
136981	TCTTTTAAAT	TTGATATAGT	CATACATTTG	TTTTTATTTT	GAAAAGTTAG	AGTGTTGAAT
		TTTATGAAAC				
		TCCTGTAACA				
		ACTATAGTAG				
137221	TATATGTCAT	TTGTTTTTTT	TTTTTTTGAG	ATGGCGTCTC	ACTCTGTCAC	CCAAGCTGGA
		ATGACCTTGG				
		TCCTGAGTAG				
		ACGGGGTTTC				
137461	TGGTCCACCC	GCCTTGGCCT	CCCAAAGTGC	TGGGATTACA	GGTGTGAGCC	ACCGCGCCCA
137521	GCCTATATGT	AATAATTTTA	ATGGGACCAT	GAATTGAATA	TTTCTTCCTT	GAATAGCAAT
		CTTCTATTGT				
		CCAGTCAGCT				
137701	TGGTAGCAAC	TCCTAGGGCA	GGGCTGATCT	GGAAGGACAG	ACCCTAGGGG	AGGGTGGAAC
137761	TTTAAAAAGA	AGTTCTGAAG	GTAGTAAGAA	GGAAATGAGG	AGTAGTGTTA	GGAAGGGGCT
137821	AACTTTTTTC	TTCTTGCTTC	TCTTCTTTAT	CTCACCTGCC	CCTCCCCTTG	TATCCCTTCT
		CTTTCCTTTT				
		AAGGAGAAGT				
		TTTATCCTAT				
138061	TCCTTCTTGC	TTCTCTTGAC	ACCACAGAGT	TTGCAGCTAG	TACTTGGAGA	GGAAAATTAA
		TTGGACCAAG				
		GAGTATGGGG				
138241	GTTTATATAA	ACTGCTTATA	GATGGAAATC	AGAAAATTTA	AATTCTCTTA	ACTGTCCAAG
138301	AAAATTCTCA	TTTTTTCAAA	TTTGGGACTG	ATAAATGTGA	CCAGTTCTGC	TTACTGTCCA
138361	TTGCCTGAAA	TGGAGCTTTG	AGGTGGACTG	TATAATTTCT	TCAATCTTAA	CTCCAAATTC
		CGCCCTCTGC				
		CCTGGCAGTT				
		CTGGGTAAGG				
138601	GCTGGGAAGC	CCAATATCAA	GGCACCAGTA	GATTTGGTGT	CTAACGAGGG	TGTGCCGTCT
138661	GCTTCAAAAA	TGGCCCCTTG	TTGCTGCATC	CTCACTTAGT	GCAAGGGGCA	AGACAGCTCC
		TTTTATAAGG				
		CAAAGGCCCC				
		CTTCAAGCCA				
138901	ATTTAATTAA	TATTACACTA	TTTATAGAAG	CATGTGATGT	ATCATTCCTT	GTATTAATTT
138961	CCTGGGGTTG	CCGTAACAAG	TTACCACAAA	CTAGGTGGCT	TAAAACAATA	GAATTTTATT
		TCTAGAGGCA				
		AGAATATATT				
139141	TTAGCTTACT	TTGGCTTTCT	GTGTCTTCAC	ATCATCTTTT	TATAAGAACA	CCAGTGATAG
139201	TGATTAAGGG	CATACCTTAC	TTTAATATGA	CCTCATCTTA	ACTAATTATG	TCTTCAATAA
139261	CCCTATTTCC	AAATAAGGCC	ACATTCTGAA	GTATTGGGAG	TTAGAACTTA	AAGCTTTTTG
		AGTTCAACCC				
		TTTCAAAAAG				
139441	ATAGTTCTTT	AGCCCCCAAT	TTTTTTTTTT	TTTTTTTTT	TTTTTTTTTT	TTTTTGAGAC
139501	GGAGTCTCGC	TCTGTCGCCC	AGGCCGGACT	GCGGACTGCA	GTGGCGCAAT	CTCGGCTCAC
		GCTTCCCGGG				
		CCTGCCACCG				
		TAGCCAGGAT				
		CTGGGATTAC				
139801	GTTTTTCTAT	AAACAGGGAA	ATTTATTTGT	GTGGCCCTTA	GAACTAATTT	AATTTCCACT
		CTTATGTTTA				
		GTATCTGTTG				
		AATTGTTTTA				
140041	GGCCAAGGCA	GAAGGATTGC	TTGAGCCCAG	GAGTTTGAGA	CCAGACTGAG	CAACACAGGG
140101	AGACCCCCAT	CTCTACAAAA	AATAAAAAAA	TTCTCCAGGC	CTCATGGCAC	ATACCTGTAG
		TTGGGAGACT				
		GATCAGGCCA				
		AGATAGATAA				
140341	ACAGATTATC	TAAATAGATA	ATAGACAGAT	TATCTAAATA	GATAATAGAC	AGATTATCTA
		AGACAGATTA				
		TAAATAGATA				
140521	TTGGACAACA	GAGTGAGAGC	CTGTCTAGAT	AGATAGAAAC	AAAGAAAGAA	AGAAAGAATG
		TTTAAAGCAT				
140641	TTGTTGGCAT	TAAGATGCAA	ACTTTGTTTT	AAACAGTTGA	GTAAATCAAA	GATGGGACTG
		TGTGTTATTT				
		TGCTATTTAG				
140/01	ATTAGTAGTA	TOCIMITIAG	TWWTAWWOIW	ACONTACCTA	CIICGUACUM	CHCHCHCAGG
		GAATGAGAGA				
140881	ACTCATTCAG	TCATTTAACA	AGTATTTCCA	GAGTACTTAT	TCTGTGCCAG	GAAATGTTGT

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140941AGGTGCCCTCAACAACTTAGAGTCTAGCCTGAGACACAAGTAAGTAGGTAATTATTATAG141001AATGGTATGATCTTTGGAGGACTGGGTATTGGCTGGCTCATGGGAGTACAAGATAGGTAC141061CCAGTGATGAAGTCAGGAAAGGTTTCTTATGGTGATATGATGACGTCTATGCTGATTATA141121AGGTCAGTGTAGAATAAACTTTGTGCTTTTAAATTTGCATAGCACTGTATTAGAGAGTTC141181ATCTTCAAAATAATCGAAAAGGCTGAGTGTGGCTGACCCATGGCTGTAATCCCAGCACTTT141241GGGAGGCCGAGGTGGCCAGATTGCTTGAGCTAGGAGTTCGAGACCAGGCTGGCCAACATG141301GTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCCAGGAGTGATGGTGCGCACCTGT141361AATGCCAGCTACTTGGGAGGCTGAGGCAGCAGGATCACTTGAACCCAGGAGGTGGAGGTT141421GAAGTAAGCCGAGGTCATGCCACTGCACTCAGCCTGGCAACAGAGTGAGACTCCATCT141481CAAAAAAAAAAAAAATGATCAAAGAAAGGTGAATTTTCATCTACCCTATTTCTGCTGAGG141541AAAATGGACTATTTTCAAATATTTTTAATAAGGGTCAAAATGAGGGATC
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(2) INFORMATION FOR SEQ ID NO: 2481:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1310 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2481:
- 1 GCCACCATGG AAACCCTTTG CCTCAGGGCA TCCTTTTGGC TGGCACTGGT TGGATGTGTA
- 61 ATCAGTGATA ATCCTGAGAG ATACAGCACA AATCTAAGCA ATCATGTGGA TGATTTCACC
- 121 ACTTTTCGTG GCACAGAGCT CAGCTTCCTG GTTACCACTC ATCAACCCAC TAATTTGGTC
- 181 CTACCCAGCA ATGGCTCAAT GCACAACTAT TGCCCACAGC AGACTAAAAT TACTTCAGCT
- 241 TTCAAATACA TTAACACTGT GATATCTTGT ACTATTTTCA TCGTGGGAAT GGTGGGGAAT
- 301 GCAACTCTGC TCAGGATCAT TTACCAGAAC AAATGTATGA GGAATGGCCC CAACGCGCTG
- 361 ATAGCCAGTC TTGCCCTTGG AGACCTTATC TATGTGGTCA TTGATCTCCC TATCAATGTA
- 421 TTTAAGCTGC TGGCTGGGCG CTGGCCTTTT GATCACAATG ACTTTGGCGT ATTTCTTTGC
- 481 AAGCTGTTCC CCTTTTTGCA GAAGTCCTCG GTGGGGATCA CCGTCCTCAA CCTCTGCGCT
- 541 CTTAGTGTTG ACAGGTACAG AGCAGTTGCC TCCTGGAGTC GTGTTCAGGG AATTGGGATT
- 601 CCTTTGGTAA CTGCCATTGA AATTGCCTCC ATCTGGATCC TGTCCTTTAT CCTGGCCATT
- 661 CCTGAAGCGA TTGGCTTCGT CATGGTACCC TTTGAATATA GGGGTGGACA GCATAAAACC
- 721 TGTATGCTCA ATGCCACATC AAAATTCATG GAGTTCTACC AAGATGTAAA GGACTGGTGG
- 781 CTCTTCGGGT TCTATTTCTG TATGCCCTTG GTGTGCACTG CGATCTTCTA CACCCTCATG
- 841 ACTGGTGAGA TGTTGAACAG AAGGAATGGC AGCTTGAGAA TTGCCCTCAG TGAACATCTT
- 901 AAGCAGCGTC GAGAAGTGGC AAAAACAGTT TTCTGCTTGG TTGTAATTTT TGCTCTTTGC 961 TGGTTCCCTC TTCATTTAAG CCGTATATTG AAGAAAACTG TGTATAACGA GATGGACAAG
- 1021 AACCGATGTG AATTACTTAG TTTCTTACTG CTCATGGATT ACATCGGTAT TAACTTGGCA
- 1081 ACCATGAATT CATGTATAAA CCCCATAGCT CTGTATTTTG TGAGCAAGAA ATTTAAAAAT
- 1141 TGTTTCCAGT CATGCCTCTG CTGCTGCTGT TACCAGTCCA AAAGTCTGAT GACCTCGGTC
- 1201 CCCATGAACG GAACAAGCAT CCAGTGGAAG AACCACGATC AAAACAACCA CAACACAGAC
- 1261 CGGAGCAGCC ATAAGGACAG CATGAACTGA CCACCCTTAG AAGCACTCCT

(2) INFORMATION FOR SEQ ID NO:2482:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1868 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2482:
- 1 GAATTCGGGA AAAAGTGAAG GTGTAAAAGC AGCACAAGTG CAATAAGAGA TATTTCCTCA
- 61 AATTTGCCTC AAGATGGAAA CCCTTTGCCT CAGGGCATCC TTTTGGCTGG CACTGGTTGG
- 121 ATGTGTAATC AGTGATAATC CTGAGAGATA CAGCACAAAT CTAAGCAATC ATGTGGATGA
- 181 TTTCACCACT TTTCGTGGCA CAGAGCTCAG CTTCCTGGTT ACCACTCATC AACCCACTAA
- 241 TTTGGTCCTA CCCAGCAATG GCTCAATGCA CAACTATTGC CCACAGCAGA CTAAAATTAC
- 301 TTCAGCTTTC AAATACATTA ACACTGTGAT ATCTTGTACT ATTTTCATCG TGGGAATGGT
- 361 GGGGAATGCA ACTCTGCTCA GGATCATTTA CCAGAACAAA TGTATGAGGA ATGGCCCCAA
- 421 CGCGCTGATA GCCAGTCTTG CCCTTGGAGA CCTTATCTAT GTGGTCATTG ATCTCCCTAT
- 481 CAATGTATTT AAGCTGCTGG CTGGGCGCTG GCCTTTTGAT CACAATGACT TTGGCGTATT
- 541 TCTTTGCAAG CTGTTCCCCT TTTTGCAGAA GTCCTCGGTG GGGATCACCG TCCTCAACCT
- 601 CTGCGCTCTT AGTGTTGACA GGTACAGAGC AGTTGCCTCC TGGAGTCGTG TTCAGGGAAT
- 661 TGGGATTCCT TTGGTAACTG CCATTGAAAT TGTCTCCATC TGGATCCTGT CCTTTATCCT
- 721 GGCCATTCCT GAAGCGATTG GCTTCGTCAT GGTACCCTTT GAATATAGGG GTGAACAGCA
- 781 TAAAACCTGT ATGCTCAATG CCACATCAAA ATTCATGGAG TTCTACCAAG ATGTAAAGGA
- 841 CTGGTGGCTC TTCGGGTTCT ATTTCTGTAT GCCCTTGGTG TGCACTGCGA TCTTCTACAC

- 901 CCTCATGACT TGTGAGATGT TGAACAGAAG GAATGGCAGC TTGAGAATTG CCCTCAGTGA 961 ACATCTTAAG CAGCGTCGAG AAGTGGCAAA AACAGTTTTC TGCTTGGTTG TAATTTTTGC 1021 TCTTTGCTGG TTCCCTCTTC ATTTAAGCCG TATATTGAAG AAAACTGTGT ATAACGAGAT 1081 GGACAAGAAC CGATGTGAAT TACTTAGTTT CTTACTGCTC ATGGATTACA TCGGTATTAA 1141 CTTGGCAACC ATGAATTCAT GTATAAACCC CATAGCTCTG TATTTTGTGA GCAAGAAATT 1201 TAAAAATTGT TTCCAGTCAT GCCTCTGCTG CTGCTGTTAC CAGTCCAAAA GTCTGATGAC 1261 CTCGGTCCCC ATGAACGGAA CAAGCATCCA GTGGAAGAAC CACGATCAAA ACAACCACAA 1321 CACAGACCGG AGCAGCCATA AGGACAGCAT GAACTGACCA CCCTTAGAAG CACTCCTCGG 1381 TACTCCCATA ATCCTCTCGG AGAAAAAAAT CACAAGGCAA CTGTGAGTCC GGGAATCTCT 1441 TCTCTGATCC TTCTTCCTTA ATTCACTCCC ACACCCAAGA AGAAATGCTT TCCAAAACCG 1501 CAAGGGTAGA CTGGTTTATC CACCCACAAC ATCTACGAAT CGTACTTCTT TAATTGATCT 1561 AATTTACATA TTCTGCGTGT TGTATTCAGC ACTAAAAAAT GGTGGGAGCT GGGGGAGAAT 1621 GAAGACTGTT AAATGAAACC AGAAGGATAT TTACTACTTT TGCATGAAAA TAGAGCTTTC 1681 AAGTACATGG CTAGCTTTTA TGGCAGTTCT GGTGAATGTT CAATGGGAAC TGGTCACCAT 1741 GAAACTTTAG AGATTAACGA CAAGATTTTC TACTTTTTTT AAGTGATTTT TTTGTCCTTC 1801 AGCCAAACAC AATATGGGCT CAAGTCACTT TTATTTGAAA TGTCATTTGG TGCCAGTATC 1861 CCGAATTC
- (2) INFORMATION FOR SEQ ID NO:2483:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 752 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2483:
 - 1 CACCGCTCCT GTCAGCCAAC AAATATCCAT TGAGCGACAC CTGTGTCCCA GGTGCTGCTC
 - 61 TGGGCCCTGG GAGAAGTGCA TCAGTGGGCT TGGTAGTAGA GGGTAGGGAT GGAGTGAAGG
 - 121 GTAGGCAGGA AGAATGTCCC CAGGCTGGTA GGAGGTGGGG TGGGGGGTTT CAGTCTCAAA
 - 181 ACTCCCATGA AAACCAGAGA GAAGTTTCAG AACTCCACCC AAGAGGCTGG GTTTCTAGGG
 - 241 CCCAGAGCTG CCCTCCCCCA CCCTAGAATG GGCTATAAAA GTCCCTTCCC AGCTACGTCC
 - 301 AGAGAAGAGC TGGAGGAAGT GAGAGGTCGG CTGGGGGTCC TCAAAGTGAG AGGGGAGCAG 361 AGGATCCTCC CGTGCAGGCT GTGGATGTCA CTCACTTCCC AGCTGGTGAA GCCTCGCTGC
 - 421 AGAGATGCAT CTGCTCCCAG CCCTGGCAGG GGTCCTGGCC ACACTCGTCC TCGCCCAGCC
 - 481 CTGTGAGGGC ACTGACCCAG GTAATAGTCC CCTAGACAGG CAAGGAGGAG GGAGGGGAAA
 - 541 TGGAAGGGGA AGCACTTGGG TCTTGGAGGG GGTCTTGTGG CTTGCTGAAC CCTGAGTCCC
 - 601 CATCTCTTTG AACAGCCTCC CCTGGGGCAG TGGAGACCTC GGTCCTGCGA GACTGCATAG
 - 661 CAGAGGCCAA GTTGCTGGTG GATGCTGCCT ACAATTGGAC CCAGAAGAGG TGGACTTGGG
 - 721 TCTGGGGGCT GCATGGGCCT GGGAGGATCA GT
- (2) INFORMATION FOR SEQ ID NO:2484:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 403 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2484:
 - 1 TAATACCTTG TGGGGTCAGG GAGCCCATGT CCCGTGCTGA TGTTATTTCC CCACCAGGTC
 - 61 CGGGCTGTCT CCAACCAGAT TGTGCGCTTC CCCAATGAGA GACTGACCTC CGACCGTGGC
 - 121 CGAGCCCTCA TGTTCATGCA GTGGGGCCAG TTCATTGACC ATGACCTGGA CTTCTCCCCG
 - 181 GAGTCCCCGG CCAGAGTGGC CTTCACTGCA GGCGTTGACT GTGAGAGGAC CTGCGCCCAG
 - 241 CTGCCCCCT GCTTTCCCAT CAAGGTACCT ACCCTCAGCC AATCTCCCAT GCCCTTGTGT
 - 301 GGCCTCCCCC AAAGGCAAGG TGCTGGGGGT GGGGATCTGG AAGACTGGAG CACCATCCTT
 - 361 AAGGAGCTGC CTGTGGAGCT AGGGTATGAG ACAGAGACAC AAG
- (2) INFORMATION FOR SEQ ID NO:2485:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2485:
 - 1 CACTGTCTCC TCTTCCATCT CAGATCCCAC CCAATGACCC CCGCATCAAG AACCAGCGTG
 - 61 ACTGCATCCC TTTCTTCCGC TCGGCACCCT CATGCCCCCA AAACAAGAAC AGAGTCCGCA

- 121 ACCAGATCAA CGCGCTCACC TCCTTTGTGG ACGCCAGCAT GGTGTATGGC AGTGAGGTCT
- 181 CCCTCTCGCT GCGGCTCCGC AACCGGACCA ACTACCTGGG GCTGCTGGCC ATCAACCAGC
- 241 GCTTTCAAGA CAACGGCCGG GCCCTGCTGC CCTTCGACAA CCTGCACGAT GACCCCTGTC
- 301 TCCTCACCAA CCGCTCGGCG CGCATCCCCT GCTTCCTGGC AGGTCAGACA GGGAGGAAGG
- 361 TGGTGTCTTC CCAGGAAACA GCCATCCCTG GGGTCCCAAC TGGGAAGCAA TGGTGGGATG
- 421 TGGTGAAGGT ACATGGTTTG GGACCTCAGT ATTAGGCACA CCATAAGCAT GGATCTGTGC
- 481 AC
- (2) INFORMATION FOR SEQ ID NO:2486:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 325 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2486:
 - 1 TGAAGAGATG GAGGTCCAGT GAGGGCCAGG AGTTTGGCCC ACCCCGTCTC TCCCATCCCC
 - 61 AGCCCTGGGT CTACCCTGGT AGAAAGACAT TTCTCTGGGA AAGGCTGCAG TAAATCTGAG
 - 121 CTTGGGGTTT TCAAGGTGAC ACCCGATCAA CGGAAACCCC CAAACTGGCA GCCATGCACA
 - 181 CCCTCTTTAT GCGAGAGCAC AACCGGCTGG CCACCGAGCT GAGACGCCTG AATCCCCGGT
 - 241 GGAATGGAGA CAAACTGTAC AATGAGGCTC GGAAGATCAT GGGGGCCATG GTCCAGGTAA
 - 301 GGAGCTCTGC ATCCCAGCAT CCCCC
- (2) INFORMATION FOR SEQ ID NO:2487:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 464 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2487:
 - 1 CTTTGTATCT CCACCCACCA ATAGTAAATT AATGTTGTCA CATTTGACGT GATGACAATA
 - 61 AAGAATATGT CTGAGCCACC CTTTGAAAAG GCAAGGGTAT GGGTGAGTAG CCTCTGGGGA
 - 121 ATGTTCCTCC TGTCTTCCCT TCCAGATCAT CACCTACCGA GACTTTCTGC CCCTGGTTCT
 - 181 GGGCAAGGCC CGGGCCAGGA GAACCCTGGG GCACTACAGG GGGTACTGCT CCAATGTGGA
 - 241 CCCACGGGTG GCCAATGTCT TCACCCTGGC CTTCCGCTTT GGCCACACAA TGCTCCAGCC
 - 301 CTTCATGTTC CGCTTGGACA GTCAGTACCG GGCCTCCGCA CCCAACTCGC ATGTCCCACT
 - 361 TAGCTCTGCC TTCTTTGCCA GCTGGCGGAT CGTGTATGAA GGTGACCAGG TTTTCCAGGG
 - 421 GGCAAATGGG GGTGAGGGTG GGGAGCATGC CCTCCCCTAG GTGG
- (2) INFORMATION FOR SEQ ID NO:2488:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 410 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2488:
 - 1 TCCAGCTGCT TCATGTCTCT CCAGAACTCT GTTTCCTGAC AAACGTTACT AACATACCCG
 - 61 ACTGGCTTGT CCAGCTCTGG GCTAGCTTGG CATCATGTGA TAACCCAAGT AGCTTCCCAG
 - 121 AGGCTGGTCC AATCTGTGCT GCTCACATTC CCTGCCACCA GGGGGCATCG ACCCCATCCT 181 CCGGGGCCTC ATGGCCACCC CTGCCAAGCT GAACCGTCAG GATGCCATGT TAGTGGATGA
 - 241 GCTCCGGGAC CGGCTGTTTC GGCAAGTGAG GAGGATTGGG CTGGACCTGG CAGCTCTCAA
 - 301 CATGCAACGA AGCCGGGACC ACGCCTTCC AGGTGAGGGG GCTGTCCACC TCTTCTCCCA
 - 361 GCTTTGCTCG GGCCAGGCTG CTCAAGGGGT TCTGGGAAGA CCCTGGTACC
- (2) INFORMATION FOR SEQ ID NO:2489:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 437 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2489:
 - 1 CGACTGCCTG GTAGGTTCTG GTGGCAGAAA CGAGGTGTTT TCACCAAAAG ACAGCGCAAG
 - 61 GCCCTGAGCA GAATTTCCTT GTCTCGAATT ATATGTGACA ATACCGGTAT CACCACGGTT
 - 121 TCAAGGGACA TCTTCAGAGC CAACATCTAC CCTCGGGGCT TTGTGAACTG CAGCCGTATC
 - 181 CCCAGGTTGA ACCTATCAGC CTGGCGAGGG ACATGAGGCT TCTGCAGGTA AGGGGAGGCC

- 241 ACCTCCAGCA CCCTGGGCTG GTTAAGCCTC ACATCCTTCC CTGGATGGAT GGCTGAGTCC 301 TCTTAGGTCT CTAAGCAGAG AAAACAGAAC TTGTCACTAG GTACTCTTTC CAAGTGGCTT 361 CCCAATGTGC TAGTTTCTGG GCTGACAGTC AATTCCAGGC CCTAGGACTT TGGGGGGAAA 421 TTAGGAGCAT CCAACTA (2) INFORMATION FOR SEQ ID NO: 2490: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2490: 1 GAATTCCGTG GCCAGGACCC CTGCCAGGGC ACTGACCCAG CCTCCCCTGG GGCAGTGGAG 61 ACCTCGGTCC TGCGAGACTG CATAGCAGAG GCCAAGTTGC TGGTGGATGC TGCCTACAAT 121 TGGACCCAGA AGAGCATCAA GCAGCGGCTT CGCAGCGGTT CAGCCAGCCC CATGGACCTC 181 CTGTCCTACT TCAAACAACC GGTAGCAGCC ACCAGGACAG TTGTTCGGGC CGCAGATTAT 241 ATGCATGTGG CTTTGGGGCT GCTTGAAGAG AAGTTACAAC CCCAGCGGTC CGGACCCTTC 301 ATTGTCACTG ATGTGCTAAC AGAACCACAG CTGCGGCTGC TGTCCCAGGC CAGTGGCTGT 361 GCTCTCCGGG ACCAGGCCGA GCGCTGCAGC GACAAGTACC GCACCATCAC TGGACGGTGC 421 AACAACAAGA GGAGACCCTT GCTAGGGGCC TCCAACCAGG CTCTGGCTCG CTGGCTGCCC 481 GCCGAGTATG AGGATGGGCT GTCGCTCCCC TTCGGCTGGA CCCCCAGCAG GAGGCGCAAT 541 GGCTTCCTTC TCCCTCTTGT CCGGGCTGTC TCCAACCAGA TTGTGCGCTT CCCCAATGAG 601 AGACTGACCT CCGACCGTGG CCGAGCCCTC ATGTTCATGC AGTGGGGCCA GTTCATTGAC 661 CATGACCTGG ACTTCTCCCC GGAGTCCCCG GCCAGAGTGG CCTTCACTGC AGGCGTTGAC 721 TGTGAGAGGA CCTGCGCCCA GCTGCCCCCC TGCTTTCCCA TCAAGATCCC ACCCAATGAC 781 CCCCGCATCA AGAACCAGCG TGACTGCATC CCTTTCTTCC GCTCGGCACC CTCATGCCCC 841 CAAAACAAGA ACAGAGTCCG CAACCAGATC AACGCGCTCA CCTCCTTTGT GGACGCCAGC 901 ATGGTGTATG GCAGTGAGGT CTCCCTCTCG CTGCGGCTCC GCAACCGGAC CAACTACCTG 961 GGGCTGCTGG CCATCAACCA GCGCTTTCAA GACAACGGCC GGGCCCTGCT GCCCTTCGAC 1021 AACCTGCACG ATGACCCCTG TCTCCTCACC AACCGCTCGG CGCGCATCCC CTGCTTCCTG 1081 GCAGGTGACA CCCGATCAAC GGAAACCCCC AAACTGGCAG CCATGCACAC CCTCTTTATG 1141 CGAGAGCACA ACCGGCTGGC CACCGAGCTG AGACGCCTGA ATCCCCGGTG GAATGGAGAC 1201 AAACTGTACA ATGAGGCTCG GAAGATCATG GGGGCCATGG TCCAGATCAT CACCTACCGA 1261 GACTTTCTGC CCCTGGTTCT GGGCAAGGCC CGGGCCAGGA GAACCCTGGG GCACTACAGG 1321 GGGTACTGCT CCAATGTGGA CCCACGGGTG GCCAATGTCT TCACCCTGGC CTTCCGCTTT 1381 GGCCACACAA TGCTCCAGCC CTTCATGTTC CGCTTGGACA GTCAGTACCG GGCCTCCGCA 1441 CCCAACTCGC ATGTCCCACT TAGCTCTGCC TTCTTTGCCA GCTGGCGGAT CGTGTATGAA 1501 GGGGGCATCG ACCCCATCCT CCGGGGCCTC ATGGCCACCC CTGCCAAGCT GAACCGTCAG 1561 GATGCCATGT TAGTGGATGA GCTCCGGGAC CGGCTGTTTC GGCAAGTGAG GAGGATTGGG 1621 CTGGACCTGG CAGCTCTCAA CATGCAACGA AGCCGGGACC ACGGCCTTCC AGGGTACAAT 1681 GCTTGGAGGC GCTTCTGTGG GCTCTCCCAG CCCCGGAATT TGGCACAGCT TAGCCGGGTG 1741 CTGAAAAACC AGGACTTGGC AAGGAAGTTC CTGAATTTGT ATGGAACACC TGACAACATT 1801 GACATCTGGA TTGGGGCCAT CGCTGAGCCT CTTTTGCCGG GGGCTCGAGT GGGGCCTCTT 1861 CTGGCTTGTC TGTTCGAGAA CCAGTTCAGA AGAGCCGAGA CGGAGACAGG TTCTGGTGGC 1921 AGAACGAGGT GTTTTCACCA AAGACAGCGC AAGGCCCTGA GCAGAATTTC CTTGTCTCGA 1981 ATTATATGTG ACAATACCGG TATCACCACG GTTTCAAGGG ACATCTTCAG AGCCAACATC 2041 TACCCTCGGG GCTTTGTGAA CTGCAGCCGT ATCCCCAGGT TGAACCTATC AGCCTGGCGA 2101 GGGACATGAG GCTTCTGCAG GAGTCTATCC CAAGTCTCCA ACTTTTGGAG ACAAGGGGAA 2161 GGGGAGGACC ATGAGGCTGC CTTGTCTCCC TGGAGCAAGT GCAGGCTCGT GACGCTTCTG 2221 CTGGCTACAG CTCAGAGCTG GGTTCCCCAG CCAGGAGTGA AGGCTGGGGG CTCCTATCAG 2281 CAATGGACCT TCCGCCTTGG GAGCCTCTTA GGTATTAGGC TATGAATCAG CGCCACGTGC 2341 AAAGGCTTGG GAGCCAAGCC ATGTGGTCTT GCACCCCAGG CAAGAAAAGT CAGCTGGAGG 2401 GTTTACAGCA CTTTCTACTG TTTCCCAGCC CTCCCTCCCC TCCCTCACCA TGACTAAGAG 2461 ACCACTCGGT CCTAGCCTCC AGACACCCCA CAATACTCCT CTGAGCCTGA GGCCAGGCAG
 - (2) INFORMATION FOR SEQ ID NO: 2491:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 807 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2491:

2521 CATGCTCTGC TTCTACCAAT AAAGCACTGC CGGAATTC

- (2) INFORMATION FOR SEQ ID NO:2492:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 294 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2492:
 - 1 ATGAAGGTCT CCGCAGCACT TCTGTGGCTG CTGCTCATAG CAGCTGCCTT CAGCCCCCAG
 - 61 GGGCTCGCTG GGCCAGCTTC TGTCCCAACC ACCTGCTGCT TTAACCTGGC CAATAGGAAG
 - 121 ATACCCCTTC AGCGACTAGA GAGCTACAGG AGAATCACCA GTGGCAAATG TCCCCAGAAA
 - 181 GCTGTGATCT TCAAGACCAA ACTGGCCAAG GATATCTGTG CCGACCCCAA GAAGAAGTGG
 - 241 GTGCAGGATT CCATGAAGTA TCTGGACCAA AAATCTCCAA CTCCAAAGCC ATAA
- (2) INFORMATION FOR SEQ ID NO:2493:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2655 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2493:
 - 1 CCACATATTC CCCTCCTTTT CCAAGGCAAG ATCCAGATGG ATTAAAAAAT GTACCAAGTC
 - 61 CCTCCTACTA GCTTGCCTCT CTTCTGTTCT GCTTGACTTC CTAGGATCTG GAATCTGGTC
 - 121 AGCAATCAGG AATCCCTTCA TCGTGACCCC CGCATGGGCA AAGGCTTCCC TGGAATCTCC
 - 181 CACACTGTCT GCTCCCTATA AAAGGCAGGC AGATGGGCCA GAGGAGCAGA GAGGCTGAGA 241 CCAACCCAGA AACCACCACC TCTCACGCCA AAGCTCACAC CTTCAGCCTC CAACATGAAG
 - 301 GTCTCCGCAG CACTTCTGTG GCTGCTGCTC ATAGCAGCTG CCTTCAGCCC CCAGGGGCTC
 - 361 GCTGGGCCAG GTAAGCCCCC CAACTCCTTA CAGGAAAGGT AAGGTAACCA CCTCCAGGCT
 - 421 ACTAGGTCAG CAAGAATCTT TACAGACTCA CTGCAAATTC TCCATTTGAA AAATAGGGAA
 - 481 ACAGGTTTTG TGGGTGGACA AGAAATGCCT CAACCGTCAC ATCCAGTCAC TGGAAGAGCC
 - 541 AGAACTAGAA AGCTCCCGAG TCTTTTCCCC ACATTCAAGA GGGCCGCTGG GTGCATCCTT
 - 601 ACCCAGCTAT CCTTACAGTG TTTGGGAATG GGGAATGGCT CTGTCTTACT GTGGGCATGG
 - 661 TGGGCATTTT TGGCAGTGGG AGAGAAGGAA AATCTGTTGA TTAGAAGCTC AGTATGTTAA
 - 721 TTCGACTCCA GGACAGCTTT CAGAGACAGT GGCTAAGAGA AGAACGAGGT CCCAGGGGAT
 - 781 CTCTTGAGGT GACTTATTTT GACACTCTTT GGGAAAGTTA TCTAGGAGAT TTGTTCCATA
 - 841 ACTCATTTTC CCATACTCTG GTGACAAATT TACTGAGTGT ATCGGTCCCA CTGAGCCAGT
 - 901 GCATAGCATG GTAACAAACA GTTCTAAATT ATCAATGACT TAACAGAATT AACTAAATTA
 - 961 ACAAAAGTTA CTTTCTCACT TGTACTAAAT ATCTATAATG TATGGGCTCA GGCTTCTGCA
- 1021 TTTTATACTC AGGATTCTAG ACTGATGGAG AAGTTGCCAT GTGGGGGAAC ATTGATGGAT
- 1081 ACTGTGATAA AGCAGAAGAA AGCTCTCAGG AGTCTTGCAT AGGCAATGCA CTGTGGCTCA
- 1141 AAAATGACAC CCATCACTTT GTCTCCTTCT TTATTGATCA AAACTAATTA ATGCCTCCAA
- 1201 CCAAACAAAA GTGGCCAAGA AATGCAAGTC TACCTTGTGT CTCAAAACAG AGGATGGAGA 1261 ATATTTGGTG AAAATTACCA TGACCATCAC ATGGCCACGT AGGTCTTTAT AATGACAGAG
- 1321 CTAGCATTG TCACATTGAC CAAGCTTTGT CCATACACTC TACAGTAATG ATGAGTCCTC
- 1381 AGTGCACAGG GGAGGATGCT GAAGACACAG GACAGCATCC TCCAGACACA TAAGACTTCA
- 1441 GAGCAGAGGG ATTCTCCCTC CACCTCTCGC AATTCCTTGC TTTCTCCTAA CTTCCTTTAC
 1501 AAAGTCATGC TTGGAAATGT CTATGTATCA TCATGTGGCT CATTTTTTC TCTGTTCATT
- 1561 TTTTTTCCCC AAAATTCAGC TTCTGTCCCA ACCACCTGCT GCTTTAACCT GGCCAATAGG
- 1621 AAGATACCCC TTCAGCGACT AGAGAGCTAC AGGAGAATCA CCAGTGGCAA ATGTCCCCAG

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1681 AAAGCTGTGA TGTAAGTAAA TAAAGTTCAC CCTCCCCTAG ACAAAAAAAT AATGTCTAGG
1741 GCACAGAGTC AAGAACTGTG GGAGTCATAG ACTCTGATAG TTTGACCTCT ATGGTCCAAT
1801 TCATTAATTT TCACAAGTGA GTGTTCACTC CCAGCTCCCT GCCTGGGAGA TTGCTGTAGT
1861 CATATCAATT TCTTCAAGTC AAGAGCAAAG ATGGTTTTAC TGGGCCTTTA AGAGCAGCAA
1921 CTAACCCAAG AGTCTCATCC TTCCTCCTCT CCGTAGCAAC CCTTTGTCCA GGGGCAGATG
1981 GTCCTTAAAT ATTTAGGGTC AAATGGGCAG AATTTTCAAA AACAATCCTT CCAATTGCAT
2041 CCTGATTCTC CCCACAGCTT CAAGACCAAA CTGGCCAAGG ATATCTGTGC CGACCCCAAG
2101 AAGAAGTGGG TGCAGGATTC CATGAAGTAT CTGGACCAAA AATCTCCAAC TCCAAAGCCA
2161 TAAATAATCA CCATTTTTGA AACCAAACCA GAGCCTGAGT GTTGCCTAAT TTGTTTTCCC
2221 TTCTTACAAT GCATTCTGAG GTAACCTCAT TATCAGTCCA AAGGGCATGG GTTTTATTAT
2281 ATATATATA ATATATTTT TTTTAAAAAA AAACGTATTG CATTTAATTT ATTGAGGCTT
2341 TAAAACTTAT CCTCCATGAA TATCAGTTAT TTTTAAACTG TAAAGCTTTG TGCAGATTCT
2401 TTACCCCCTG GGAGCCCCAA TTCGATCCCC TGTCACGTGT GGGCAATGTT CCCCCTCTCC
2461 TCTCTTCCTC CCTGGAATCT TGTAAAGGTC CTGGCAAAGA TGATCAGTAT GAAAATGTCA
2521 TTGTTCTTGT GAACCCAAAG TGTGACTCAT TAAATGGAAG TAATGTTGTT TTAGGAATAC
2581 ATAAAGTATG TGCATATTTT ATTATAGTCA CTAGTTGTAA TTTTTTTGTG GGAAATCCAC
2641 ACTGAGCTGA GGGGG
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(2) INFORMATION FOR SEQ ID NO:2494:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2665 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2494:

1	GCATTTTTTC	AAGTTTTATG	ATTTATTTAA	CTTGTGGAAC	AAAAATAAAC	CAGAAACCAC
61	CACCTCTCAC	GCCAAAGCTC	ACACCTTCAG	CCTCCAACAT	GAAGGTCTCC	GCAGCACTTC
121	TGTGGCTGCT	GCTCATAGCA	GCTGCCTTCA	GCCCCCAGGG	GCTCGCTGGG	CCAGCTTCTG
181	TCCCAACCAC	CTGCTGCTTT	AACCTGGCCA	ATAGGAAGAT	ACCCCTTCAG	CGACTAGAGA
241	GCTACAGGAG	AATCACCAGT	GGCAAATGTC	CCCAGAAAGC	TGTGATCTTC	AAGACCAAAC
301	TGGCCAAGGA	TATCTGTGCC	GACCCCAAGA	AGAAGTGGGT	GCAGGATTCC	ATGAAGTATC
361	TGGACCAAAA	ATCTCCAACT	CCAAAGCCAT	AAATAATCAC	CATTTTTGAA	ACCAAACCAG
421	AGCCTGAGTG	TTGCCTAATT	TGTTTTCCCT	TCTTACAATG	CATTCTGAGG	TAACCTCATT
481	ATCAGTCCAA	AGGGCATGGG	TTTTATTATA	TATATATATA	TTTTTTTTTT	AAAAAAAAAC
541	GTATTGCATT	TAATTTATTG	AGGCTTTAAA	ACTTATCCTC	CATGAATATC	AGTTATTTTT
601	AAACTGTAAA	GCTTTGTGCA	GATTCTTTAC	CCCCTGGGAG	CCCCAATTCG	ATCCCCTGTC
661	ACGTGTGGGC	AATGTTCCCC	CTCTCCTCTC	TTCCTCCCTG	GAATCTTGTA	AAGGTCCTGG
721	CAAAGATGAT	CAGTATGAAA	ATGTCATTGT	TCTTGTGAAC	CCAAAGTGTG	ACTCATTAAA
781	TGGAAGTAAA	TGTTGTTTTA	GGAATACATG	AAGGTCT	CCGCAGCACT	TCTGTGGCTG
801	CTGCTCATAG	CAGCTGCCTT	CAGCCCCCAG	GGGCTCGCTG	GGCCAGCTTC	TGTCCCAACC
861	ACCTGCTGCT	TTAACCTGGC	CAATAGGAAG	ATACCCCTTC	AGCGACTAGA	GAGCTACAGG
921	AGAATCACCA	GTGGCAAATG	TCCCCAGAAA	GCTGTGATCT	TCAAGACCAA	ACTGGCCAAG
981	GATATCTGTG	CCGACCCCAA	GAAGAAGTGG	GTGCAGGATT	CCATGAAGTA	TCTGGACCAA
		CTCCAAAGCC				
		CCCTCCTTTT				
		GCTTGCCTCT				
		AATCCCTTCA				
		GCTCCCTATA				
		AACCACCACC				
		CACTTCTGTG				
		GTAAGCCCCC				
		CAAGAATCTT				
		TGGGTGGACA				
		AGCTCCCGAG				
1661	ACCCAGCTAT	CCTTACAGTG	TTTGGGAATG	GGGAATGGCT	CTGTCTTACT	GTGGGCATGG
1721	TGGGCATTTT	TGGCAGTGGG	AGAGAAGGAA	AATCTGTTGA	TTAGAAGCTC	AGTATGTTAA
1781	TTCGACTCCA	GGACAGCTTT	CAGAGACAGT	GGCTAAGAGA	AGAACGAGGT	CCCAGGGGAT
		GACTTATTTT				
		CCATACTCTG				
		GTAACAAACA				
		CTTTCTCACT				
2081	TTTTATACTC	AGGATTCTAG	ACTGATGGAG	AAGTTGCCAT	GTGGGGGAAC	ATTGATGGAT

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2141 ACTGTGATAA AGCAGAAGAA AGCTCTCAGG AGTCTTGCAT AGGCAATGCA CTGTGGCTCA
2201 AAAATGACAC CCATCACTTT GTCTCCTTCT TTATTGATCA AAACTAATTA ATGCCTCCAA
2261 CCAAACAAA GTGGCCAAGA AATGCAAGTC TACCTTGTGT CTCAAAACAG AGGATGGAGA
2321 ATATTTGGTG AAAATTACCA TGACCATCAC ATGGCCACGT AGGTCTTTAT AATGACAGAG
2381 CTAGCATTTG TCACATTGAC CAAGCTTTGT CCATACACTC TACAGTAATG ATGAGTCCTC
2441 AGTGCACAGG GGAGGATGCT GAAGACACAG GACAGCATCC TCCAGACACA TAAGACTTCA
2501 GAGCAGAGGG ATTCTCCCTC CACCTCTCGC AATTCCTTGC TTTCTCCTAA CTTCCTTTAC
2561 AAAGTCATGC TTGGAAATGT CTATGTATCA TCATGTGGCT CATTTTTTTC TCTGTTCATT
2621 TTTTTTCCCC AAAATTCAGC TTCTGTCCCA ACCACCTGCT GCTTTAACCT GGCCAATAGG
2681 AAGATACCCC TTCAGCGACT AGAGAGCTAC AGGAGAATCA CCAGTGGCAA ATGTCCCCAG
2741 AAAGCTGTGA TGTAAGTAAA TAAAGTTCAC CCTCCCCTAG ACAAAAAAAT AATGTCTAGG
2801 GCACAGAGTC AAGAACTGTG GGAGTCATAG ACTCTGATAG TTTGACCTCT ATGGTCCAAT
2861 TCATTAATTT TCACAAGTGA GTGTTCACTC CCAGCTCCCT GCCTGGGAGA TTGCTGTAGT
2921 CATATCAATT TCTTCAAGTC AAGAGCAAAG ATGGTTTTAC TGGGCCTTTA AGAGCAGCAA
2981 CTAACCCAAG AGTCTCATCC TTCCTCCTCT CCGTAGCAAC CCTTTGTCCA GGGGCAGATG
3041 GTCCTTAAAT ATTTAGGGTC AAATGGGCAG AATTTTCAAA AACAATCCTT CCAATTGCAT
3101 CCTGATTCTC CCCACAGCTT CAAGACCAAA CTGGCCAAGG ATATCTGTGC CGACCCCAAG
3161 AAGAAGTGGG TGCAGGATTC CATGAAGTAT CTGGACCAAA AATCTCCAAC TCCAAAGCCA
3221 TAAATAATCA CCATTTTTGA AACCAAACCA GAGCCTGAGT GTTGCCTAAT TTGTTTTCCC
3281 TTCTTACAAT GCATTCTGAG GTAACCTCAT TATCAGTCCA AAGGGCATGG GTTTTATTAT
3341 ATATATAT ATATATTTT TTTTAAAAAA AAACGTATTG CATTTAATTT ATTGAGGCTT
2341 TAAAACTTAT CCTCCATGAA TATCAGTTAT TTTTAAACTG TAAAGCTTTG TGCAGATTCT
2401 TTACCCCCTG GGAGCCCCAA TTCGATCCCC TGTCACGTGT GGGCAATGTT CCCCCTCTCC
2461 TCTCTTCCTC CCTGGAATCT TGTAAAGGTC CTGGCAAAGA TGATCAGTAT GAAAATGTCA
2521 TTGTTCTTGT GAACCCAAAG TGTGACTCAT TAAATGGAAG TAATGTTGTT TTAGGAATAC
2581 ATAAAGTATG TGCATATTTT ATTATAGTCA CTAGTTGTAA TTTTTTTGTG GGAAATCCAC
2641 ACTGAGCTGA GGGGG
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(2) INFORMATION FOR SEQ ID NO:2495:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2495:
- 1 GCCAGGTCGC TGTTGGTCCA CGCCGCCGT CGCGCCGCC GCCCGCTCAG CGTCCGCCGC
- 61 CGCCATGGGA
- (2) INFORMATION FOR SEQ ID NO: 2496:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 880 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2496:
 - 1 GGCCGGAGCC GAGCCGGGGT CGGGCAGCAG CAGGGACCCC CCAGAGGCGG GGCCTGTGGG
 - 61 ACCGCTATGG GCGTGGAGAT CGAGACCATC TCCCCCGGAG ACGGAAGGAC ATTCCCCAAG
 - 121 AAGGGCCAAA CGTGTGTGGT GCACTACACA GGAATGCTCC AAAATGGGAA GAAGTTTGAT
 - 181 TCATCCAGAG ACAGAAACAA ACCTTTCAAG TTCAGAATTG GCAAACAGGA AGTCATCAAA
 - 241 GGTTTTGAAG AGGGTGCAGC CCAGATGAGC TTGGGGCAGA GGGCGAAGCT GACCTGCACC
 - 301 CCTGATGTGG CATATGGAGC CACGGGCCAC CCCGGTGTCA TCCCTCCCAA TGCCACCCTC
 - 361 ATCTTTGACG TGGAGCTGCT CAACTTAGAG TGAAGGCAGG AAGGAACTCA AGGTGGCTGG
 421 AGATGGCTGC TGCTCACCCT CCTAGCCTGC TCTGCCACTG GGACGGCTCC TGCTTTTGGG
 - 421 AGRICULTUS TOTALISTES CONTROLLES TOTALISTES CONTROLLES TOTALISTES CONTROLLES TOTALISTES CONTROLLES TOTALISTES CONTROLLES CONTROL
 - 481 GCTCTTGATC AGTGTGCTAA CCTCACTGCC TCATGGCATC ATCCATTCTC TCTGCCCAAG
 - 541 TTGCTCTGTA TGTGTTCGTC AGTGTTCATG CGAATTCTTG CTTGAGGAAA CTTCGGTTGC 601 AGATTGAAGC ATTTCAGGTT GTGCATTTTG TGTGATGCAT GTAGTAGCCT TTCCTGATGA
 - 661 CAGAACACAG ATCTCTTGTT CGCACAATCT ACACTGCCTT ACCTTCACTT AAACCACACA
 - 721 CACAAGGTGC TCAGACATGA AATGTACATG GCGTACCGTA CACAGAGGGA CTTGAGCCAG
 - 781 TTACCTTTGC TGTCACTTTC TCTCTTATAA ATTCTGTTAG CTGCTCACTT AAACAATGTC
 - 841 CTCTTTGAGA AAATGTAAAA TAAAGGCTCT GTGCTTGACA
- (2) INFORMATION FOR SEQ ID NO: 2497:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1532 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2497:
- 1 GAATTCGGGC CGCCGCCAGG TCGCTGTTGG TCCACGCCGC CCGTCGCGCC GCCCGCCCGC
- 61 TCAGCGTCCG CCGCCGCCAT GGGAGTGCAG GTGGAAACCA TCTCCCCAGG AGACGGGCGC
- 121 ACCTTCCCCA AGCGCGGCCA GACCTGCGTG GTGCACTACA CCGGGATGCT TGAAGATGGA
- 181 AAGAAATTTG ATTCCTCCCG GGACAGAAAC AAGCCCTTTA AGTTTATGCT AGGCAAGCAG
- 241 GAGGTGATCC GAGGCTGGGA AGAAGGGGTT GCCCAGATGA GTGTGGGTCA GAGAGCCAAA
- 301 CTGACTATAT CTCCAGATTA TGCCTATGGT GCCACTGGGC ACCCAGGCAT CATCCCACCA
- 361 CATGCCACTC TCGTCTTCGA TGTGGAGCTT CTAAAACTGG AATGACAGGA ATGGCCTCCT
- 421 CCCTTAGCTC CCTGTTCTTG GATCTGCCAT GGAGGGATCT GGTGCCTCCA GACATGTGCA
- 541 GACTGAATGT GTTCTGTCAC TCAGCTTTGC TTCCGACACC TCTGTTTCCT CTTCCCCTTT
- 601 CTCCTCGTAT GTGTGTTTAC CTAAACTATA TGCCATAAAC CTCAAGTTAT TCATTTTATT 661 TTGTTTTCAT TTTGGGGTGA AGATTCAGTT TCAGTCTTTT GGATATAGGT TTCCAATTAA
- 721 GTACATGGTC AAGTATTAAC AGCACAAGTG GTAGGTTAAC ATTAGAATAG GAATTGGTGT
- 781 TGGGGGGGG GTTTGCAAGA ATATTTTATT TTAATTTTTT GGATGAAATT TTTATCTATT
- 841 ATATATTAAA CATTCTTGCT GCTGCGCTGC AAAGCCATAG CAGATTTGAG GCGCTGTTGA
- 901 GGACTGAATT ACTCTCCAAG TTGAGAGATG TCTTTGGGTT AAATTAAAAG CCCTACCTAA
- 961 AACTGAGGTG GGGATGGGGA GAGCCTTTGC CTCCACCATT CCCACCCACC CTCCCCTTAA
- 1021 ACCCTCTGCC TTTGAAAGTA GATCATGTTC ACTGCAATGC TGGACACTAC AGGTATCTGT
- 1081 CCCTGGGCCA GCAGGGACCT CTGAAGCCTT CTTTGTGGCC TTTTTTTTT TTCATCCTGT
- 1141 GGTTTTCTA ATGGACTTTC AGGAATTTTG TAATCTCATA ACTTTCCAAG CTCCACCACT
- 1201 TCCTAAATCT TAAGAACTTT AATTGACAGT TTCAATTGAA GGTGCTGTTT GTAGACTTAA
- 1261 CACCCAGTGA AAGCCCAGCC ATCATGACAA ATCCTTGAAT GTTCTCTTAA GAAAATGATG
 1321 CTGGTCATCG CAGCTTCAGC ATCTCCTGTT TTTTGATGCT TGGCTCCCTC TGCTGATCTC
- 1381 AGTTTCCTGG CTTTTCCTCC CTCAGCCCCT TCTCACCCCT TTGCTGTCCT GTGTAGTGAT
- 1441 TTGGTGAGAA ATCGTTGCTG CACCCTTCCC CCAGCACCAT TTATGAGTCT CAAGTTTTAT
- 1501 TATTGCAATA AAAGTGCTTT ATGCCCGAAT TC
- (2) INFORMATION FOR SEQ ID NO:2498:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 584 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2498:
 - 1 GCCGCCGCCA TGGGAGTGCA GGTGGAAACC ATCTCCCCAG GAGACGGGCG CACCTTCCCC
 - 61 AAGCGCGGCC AGACCTGCGT GGTGCACTAC ACCGGGATGC TTGAAGATGG AAAGAAATTT
 - 121 GATTCCTCCC GGGACAGAAA CAAGCCCTTT AAGTTTATGC TAGGCAAGCA GGAGGTGATC
 - 181 CGAGGCTGGG AAGAAGGGGT TGCCCAGATG AGTGTGGGTC AGAGAGCCAA ACTGACTATA
 - 241 TCTCCAGATT ATGCCTATGG TGCCACTGGG CACCCAGGCA TCATCCCACC ACATGCCACT
 - 301 CTCGTCTTCG ATGTGGAGCT TCTAAAACTG GAATGACAGG AATGGCCTCC TCCCTTAGCT
 - 361 CCCTGTTCTT GGATCTGCCR TGGAGGGATC TGGTGCCTCC AGACATGTGC ACATGARTCC
 - 421 ATATGGAGCT TTTCCTGATG TTCCACTCCA CTTTGTATAG ACATCTGCCC TGACTGAATG 481 TGTTCTGTCA CTCAGCTTTG CTTCCGACAC CTCTGTTTCC TCTTCCCCTT TCTCCTCGTA
 - 541 TGTGTGTTTA CCTAAACTAT ATGCCATAAA CCTCAAGTTA TTCA
- (2) INFORMATION FOR SEQ ID NO:2499:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3176 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2499:
 - 1 GCCAGGTCGC TGTTGGTCCA CGCCGCCGT CGCGCCGCCC GCCCGCTCAG CGTCCGCCGC
 - 61 CGCCATGGGA GGCCGGAGCC GAGCCGGGGT CGGGCAGCAG CAGGGACCCC CCAGAGGCGG
 - 121 GGCCTGTGGG ACCGCTATGG GCGTGGAGAT CGAGACCATC TCCCCCGGAG ACGGAAGGAC
 - 181 ATTCCCCAAG AAGGGCCAAA CGTGTGTGGT GCACTACACA GGAATGCTCC AAAATGGGAA
 - 241 GAAGTTTGAT TCATCCAGAG ACAGAAACAA ACCTTTCAAG TTCAGAATTG GCAAACAGGA 301 AGTCATCAAA GGTTTTGAAG AGGGTGCAGC CCAGATGAGC TTGGGGCAGA GGGCGAAGCT
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361 GACCTGCACC CCTGATGTGG CATATGGAGC CACGGGCCAC CCCGGTGTCA TCCCTCCCAA
421 TGCCACCTC ATCTTTGACG TGGAGCTGCT CAACTTAGAG TGAAGGCAGG AAGGAACTCA
481 AGGTGGCTGG AGATGGCTGC TGCTCACCCT CCTAGCCTGC TCTGCCACTG GGACGGCTCC
541 TGCTTTTGGG GCTCTTGATC AGTGTGCTAA CCTCACTGCC TCATGGCATC ATCCATTCTC
601 TCTGCCCAAG TTGCTCTGTA TGTGTTCGTC AGTGTTCATG CGAATTCTTG CTTGAGGAAA
661 CTTCGGTTGC AGATTGAAGC ATTTCAGGTT GTGCATTTTG TGTGATGCAT GTAGTAGCCT
721 TTCCTGATGA CAGAACACAG ATCTCTTGTT CGCACAATCT ACACTGCCTT ACCTTCACTT
781 AAACCACAC CACAAGGTGC TCAGACATGA AATGTACATG GCGTACCGTA CACAGAGGGA
841 CTTGAGCCAG TTACCTTTGC TGTCACTTTC TCTCTTATAA ATTCTGTTAG CTGCTCACTT
 901 AAACAATGTC CTCTTTGAGA AAATGTAAAA TAAAGGCTCT GTGCTTGACA GAATTCGGGC
 961 CGCCGCCAGG TCGCTGTTGG TCCACGCCGC CCGTCGCGCC GCCCGCCCGC
1011 TCAGCGTCCG CCGCCGCCAT GGGAGTGCAG GTGGAAACCA TCTCCCCAGG AGACGGGCGC
1171 ACCTTCCCCA AGCGCGGCCA GACCTGCGTG GTGCACTACA CCGGGATGCT TGAAGATGGA
1231 AAGAAATTTG ATTCCTCCCG GGACAGAAAC AAGCCCTTTA AGTTTATGCT AGGCAAGCAG
1291 GAGGTGATCC GAGGCTGGGA AGAAGGGGTT GCCCAGATGA GTGTGGGTCA GAGAGCCAAA
1351 CTGACTATAT CTCCAGATTA TGCCTATGGT GCCACTGGGC ACCCAGGCAT CATCCCACCA
1411 CATGCCACTC TCGTCTTCGA TGTGGAGCTT CTAAAACTGG AATGACAGGA ATGGCCTCCT
1471 CCCTTAGCTC CCTGTTCTTG GATCTGCCAT GGAGGGATCT GGTGCCTCCA GACATGTGCA
1591 GACTGAATGT GTTCTGTCAC TCAGCTTTGC TTCCGACACC TCTGTTTCCT CTTCCCCTTT
1651 CTCCTCGTAT GTGTGTTTAC CTAAACTATA TGCCATAAAC CTCAAGTTAT TCATTTTATT
1711 TTGTTTCAT TTTGGGGTGA AGATTCAGTT TCAGTCTTTT GGATATAGGT TTCCAATTAA
1771 GTACATGGTC AAGTATTAAC AGCACAAGTG GTAGGTTAAC ATTAGAATAG GAATTGGTGT
1831 TGGGGGGGG GTTTGCAAGA ATATTTTATT TTAATTTTTT GGATGAAATT TTTATCTATT
1891 ATATATTAAA CATTCTTGCT GCTGCGCTGC AAAGCCATAG CAGATTTGAG GCGCTGTTGA
1951 GGACTGAATT ACTCTCCAAG TTGAGAGATG TCTTTGGGTT AAATTAAAAG CCCTACCTAA
2011 AACTGAGGTG GGGATGGGGA GAGCCTTTGC CTCCACCATT CCCACCCACC CTCCCCTTAA
2071 ACCCTCTGCC TTTGAAAGTA GATCATGTTC ACTGCAATGC TGGACACTAC AGGTATCTGT
2131 CCCTGGCCA GCAGGGACCT CTGAAGCCTT CTTTTTGTGGCC TTTTTTTTT TTCATCCTGT
2191 GGTTTTCTA ATGGACTTTC AGGAATTTTG TAATCTCATA ACTTTCCAAG CTCCACCACT
2251 TCCTAAATCT TAAGAACTTT AATTGACAGT TTCAATTGAA GGTGCTGTTT GTAGACTTAA
2331 CACCCAGTGA AAGCCCAGCC ATCATGACAA ATCCTTGAAT GTTCTCTTAA GAAAATGATG
2391 CTGGTCATCG CAGCTTCAGC ATCTCCTGTT TTTTGATGCT TGGCTCCCTC TGCTGATCTC
2451 AGTTTCCTGG CTTTTCCTCC CTCAGCCCCT TCTCACCCCT TTGCTGTCCT GTGTAGTGAT
2511 TTGGTGAGAA ATCGTTGCTG CACCCTTCCC CCAGCACCAT TTATGAGTCT CAAGTTTTAT
2561 TATTGCAATA AAAGTGCTTT ATGCCCGAAT TC
2594 GCCGCCGCA TGGGAGTGCA GGTGGAAACC ATCTCCCCAG GAGACGGGCG CACCTTCCCC
2655 AAGCGCGGCC AGACCTGCGT GGTGCACTAC ACCGGGATGC TTGAAGATGG AAAGAAATTT
2715 GATTCCTCCC GGGACAGAAA CAAGCCCTTT AAGTTTATGC TAGGCAAGCA GGAGGTGATC
2775 CGAGGCTGGG AAGAAGGGGT TGCCCAGATG AGTGTGGGTC AGAGAGCCAA ACTGACTATA
2835 TCTCCAGATT ATGCCTATGG TGCCACTGGG CACCCAGGCA TCATCCCACC ACATGCCACT
2895 CTCGTCTTCG ATGTGGAGCT TCTAAAACTG GAATGACAGG AATGGCCTCC TCCCTTAGCT
2955 CCCTGTTCTT GGATCTGCCR TGGAGGGATC TGGTGCCTCC AGACATGTGC ACATGARTCC
3015 ATATGGAGCT TTTCCTGATG TTCCACTCCA CTTTGTATAG ACATCTGCCC TGACTGAATG
3075 TGTTCTGTCA CTCAGCTTTG CTTCCGACAC CTCTGTTTCC TCTTCCCCTT TCTCCTCGTA
3135 TGTGTGTTTA CCTAAACTAT ATGCCATAAA CCTCAAGTTA TTCA
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(2) INFORMATION FOR SEQ ID NO:2500:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 693 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2500:
- 1 AACAAGAAAA GCGTTGGTAG CTCTGGTGAA TCCCAAAAGA ATGTGGCAGT TGCTAGCCAT
- 61 GCTCCTGAAT ATGTATAAAC AGTACATCAT ATGACTAAGA GTTTGACTTA GGGGTTAGAT
- 121 TTTATGTGTT TGAACCCCAA ATTAGTTATT TAATAGTTGG CACCCCAAAA CAAGTTACTT
- 181 AACCTCACTA AGGTTCAGTT TTCCTGTTTA TAAAATGTAG ATAGTGATAG TATGTACTTT
- 241 ATAGGATTAT TGTGAAAAAT AAATGAAATA TCAGATTTAT TTAGGATAAC ACCTGGCATA
- 301 TGTTTGGTAT TCAGAATTAG TTGCTGCTGT TTTATTCTGC TCTCCCTTGC ATCCCACTTT 361 TCTAAGTTGT AAACTAAATA GTTGTACACA GATTGACAGA TTAAGAAAGG CTTGTGATTG
- 421 TGCTAGACCT ATGCCTATGC CTCTGTCTCA CCAGATTCCA GGTGTATATG TGGAGGTGGG
- 481 ATAGGGAGTG GAGTAAGTGG GTAAATATTA AATTGCCCAG TTGGGCACCA TCCTGAATAT
- 403254.1

- 541 TATCTCTAAA GAAAGAAGCA AAACCAGGCA CAGCTGATGG GTTAACCAGA TATGATACAG
- 601 AAAACATTTC CTTCTGCTTT TTGGTTTTAA GCCTATATTT GAAGCCTTAG ATCTCTCCAG
- 661 CACAGTAAGC ACCAGGAGTC CATGAAGAAG ATG
- (2) INFORMATION FOR SEQ ID NO:2501:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7659 base pairs (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2501:
 - 1 GATCTTCATG TGGAATGACT GGTTTCATTC AATAGACTTA ATTCAGCAGT CTGTGGGGAA
 - 61 GAGCAAGGTA TGATAGAATG GTTCCTCAAG TGCTTCAGAT GTGAAGTGGG TTTAAATATA
 - 121 CTGTCCCTGT CTTCTTCAGA GTTTTGGTAA AGATAAAATA GGACACTCAT TTAAAAGCAA
 - 181 TCTTTGCAAA TGACAAGCCA CTATAGACAT TAATAGAGTT TTCATTTCCA GTATTATCAT 241 TAATATCAGA TCCTGGAAGA AGGTTGAGCC TTGACCTAGA GCAAAAAAA AGAAGAATTA
 - 301 GTAAAGGAAT CCTGGAGAAA GCCCCTGCTG TGTATTTAAA GGAGAAAGGG AGATCATGTT

 - 421 GCCTAGATCC CCATAAGTAA TGGTTTAACT TCTGCCTTCC TGTGTTCTGA GCCAGATTAG
 - 481 GGCACAGTAG AGAAAGAGGA GTCTCTGAAA ATGTTTCCAA TTTCGCTGGT CAGACAGCGG
 - 541 ATCATCAGTG AATCAGATGA AAATTTGTGG ATTTATGCAC TAACTGATCA GCAGGAAATT
 - 601 AAACAAGAAA AGCGTTGGTA GCTCTGGTGA ATCCCAAAAG AATTTGGCAG TTGCTAGCCA
 - 661 TGCTCCTGAA TATGTATAAA CAGTACATCA TATGACTAAG AGTTTGACTT AGGGGTTAGA
 - 721 TTTTATGTGT TTGAACCCCA AATTAGTTAT TTAATAGTTG GCACCCCAAA ACAAGTTACT
 - 781 TAACCTCACT AAGATTCAGT TTTCCTGTTT ATAAAATGTA GATAGTGATA GTATGTACTT
 - 841 TATAGGATTA TTGTGAAAAA TAAATGAAAT ATCAGATTTA TTTAGGATAA CACCTGGCAT
 - 901 ATGTTTGGTA TTCAGTAATT AGTTGCTGCT GTTTTATTCT GCTCTCCCTT GCATCCCACT
 - 961 TTTCTAAGTT GTAAACTAAA TAGTTGTACA CAGATTGACA GATTAAGAAA GGCTTGTGAT
- 1021 TGTGCTAGAC CTATGCCTCT CTCTCACCAG ATTCCAGGTG TATATGTGGA GGTGGGATAG
- 1081 GGAGTGGAGT AAGTGGGTAA ATATTAAATT GCCCAGTTGG GCACCATCCT GAATATTATC
- 1141 TCTAAAGAAA GAAGCAAAAC CAGGCACAGC TGATGGGTTA ACCAGATATG ATACAGAAAA
- 1201 CATTTCCTTC TGCTTTTTGG TTTTAAGCCT ATATTTGAAG CCTTAGATCT CTCCAGCACA
- 1261 GTAAGCACCA GGAGTCCATG AAGAAGATGG CTCCTGCCAT GGAATCCCCT ACTCTACTGT
- 1321 GTGTAGCCTT ACTGTTCTTC GGTAAGTAGA GATTCAATTA CCCCTCCCAG GGAGGCCCAA
- 1381 ATGAATTTGG GGAGCAGCTG GGGTAGGAAC CTTTACTGTG GGTGGTGACT TTTTCTAGGA
- 1441 CATGTGCAAA CTATTGGGCA TTTCCCAGGG ACTCTGTAGT GGAGCCAAGC TAGAAAGCAG
- 1501 AGGCAAGTGG GCTGAGCAAC ACCTAAGGAG GAAGCCAGAC TGAAAGCTTG GTTCCTTGCA
- 1561 TTTGCTCTGG CATCTTCCAG AGTGCAAATT TCCTACCAAG GTAATGAGGG TAGAGGAGAG
- 1621 AAAGAAGCTC TTTCTTCCCC TGATTCTCAT TCCTGAAAAG ACGGTTGGTC CTTAAAATTC
- 1681 CATGGATGTA GATCTTATCC CCACACCCAG ATTCTAGTCC TCTGGAGATA AAGAAGACTG
- 1741 CTGGACACTA ATGTATCCTC TCTGGACTTT TGCAGCTCCA GATGGCGTGT TAGCAGGTGA
- 1801 GTCCTCTGTT CTTGTTCCCT TGGTGTATCA ACATGTCTGG GCATTGCTTT CCTCTCACTA
- 1861 TTTTCTTCGT CCCATCACTT CTGCTTTCTA ATGAGCATGA ATCTGTTCCT TGGCCAGACT
- 1921 ACTITCCCTC TCCACCTTGC CTTGTCTTTC TTTTTTTCCC TGATTCATTG CATTCTCTCA
- 1981 AGTCATTCTC TCCTCTGTTT TAGTCAATAA CCATGTCTGT TGCACATATA CATGTCTCAT
- 2041 TCTCTCTCT AGACACTTTG GCATGATCTC GCTCAATAAT TACATTATTA TTATTATTGC
- 2101 CATTTTATAA TTGAGGATGC TGAAACTCAG TGATTTTCTG GTGGTTACAT GGCTAAGGAA
- 2161 CTGGATTTCA ACGTAAGTTC CTTGGATCTA AGTCCAGTTC TCTTCTGACT ATATCACCCT
- 2221 TTTGTTATCA CCATGTATCT ACTTCTTTGG TCTCTGTTCA AATTTGCACT ACATCCCCTT
- 2281 GTTCCAGGAA GCCATTCAAG ACTGACTTTC TTAGTGCCTC TCACTACTTT CTGGAACTGA
- 2341 CATATGTTTT TCACTCTGTA TATACTTACA ATTAAATAGT CATAAATATT CAGAGCTTGG
- 2401 AGAAACCTTA TATTTCATCC AGTCCAGTAA ATTTATCCAT CCATAATTCA CTCATTCATT
- 2461 CACATAATAA ATATTTAATG TAACAATGGT TGAACATGGC AGACAGTGTT TCTACCTCAA
- 2521 AAGAGATTGC AGTCCTCATT TACAGATACT GAATTGAAAT TAACAGAAGT AGAGTGAGTC
- 2581 AGCTCAAATC ACATAGTGAA TTGGTTTCTT TGTTTTTAAA TCTCCTGCAT ATGTGTCCTG
- 2641 TCTTTCTCCC TGTGTTGGGC GTTCCCTGGG GCACCAATAC TAATTTCTCC TTCCCCTAGA
- 2701 AATCAAAACA GGGTCTTATC ACCAACAGAA TAAGGACAGG TTGACCACTG ATTGTCAGAA
- 2761 TATTGCTTCG TTTGTACTTT TAAGCCTAGA CAGTTTTCAA TGACTTTTTT TCTCTCTACA
- 2821 TGTCTTTCA TATTTTTATC TTCTTGAAGT CCCTCAGAAA CCTAAGGTCT CCTTGAACCC
- 2881 TCCATGGAAT AGAATATTTA AAGGAGAGAA TGTGACTCTT ACATGTAATG GGAACAATTT 2941 CTTTGAAGTC AGTTCCACCA AATGGTTCCA CAATGGCAGC CTTTCAGAAG AGACAAATTC
- 3001 AAGTTTGAAT ATTGTGAATG CCAAATTTGA AGACAGTGGA GAATACAAAT GTCAGCACCA

2061	7 C 7 7 C M M 7 7 M	CACACHCAAC	000000000000000000000000000000000000000			
		GAGAGTGAAC				
		GATCTCTCAT				
		TAGGACACCA				
3241	TGGCTGGGCA	CAGTGGCTCA	CGCCTGTAAT	CCCAGCACTT	TGGGAGGCTG	AGGCAGGTGG
3301	ATCACGAGGT	CAGGAGATCG	AGACCATCCG	GCTAACATGG	TGAAACCCCA	TCTCTGCTAA
3361	AAAATATATA	TATATAAAAT	TAGCCGGGCG	TAGTGGTGGG	CACCTGTAGT	CCCAGGTACT
3421	CGGGAGGCTG	AGGCAGGAGA	ΔΤΕ ΩΤΩΤΩΔΑ	CCCAGGAGGT	CCACCTTCCA	CTCACCTCAC
3481	ATCACCCCAC	TGCCCTCCAG	CCTCCCCTAC	ACACCA ACAC	MOOCMOMOR A	GIGAGCIGAG
2541	ALCACOCOAC	TRACECTOCAG	CCIGGGCIAC	AGAGCAAGAC	TCCGTCTCAA	AAAATA
		AAAGACCCCT				
		TTCAATATTC				
		GCCTAGATTC				
		AGAGCTGTGT				
3781	CTGCATAATC	CATATGGCAG	GACCTGAATA	TTAGGTTGTA	CTCTTCGTTA	TGAAACATAT
3841	CTGGGTACAT	TTCCTTATGT	CCTCTGTTGT	TACTTAAGAA	CACATATTTC	ATGCTTGTTT
		ACTCCTACTG				
		TTGAATAAAC				
		TTTTCTCTTG				
1021	ACACAAACMA	AACCAAMCMA	CARRAGE	MAIGITICAA	CCTCCATATG	TAAATTCCAA
4141	ACACAAACIA	AAGCAATGTA	GAATAGCTTC	TTTATTCCCT	GGAGTAGGTT	CTAGAGAAGT
4141	CCTAAAGGAT	TGGTCCTAAA	TTAATTATGC	TTATTATGCT	AGCGATATTT	CCTTTCAAAA
		ATGAATGCTT				
		TGACTCATTA				
4321	TGCTACCAAC	TCCTAAATAC	TGTGTTGGGC	ATTCAGAATA	GAATGTAGAA	CTAGACAGGG
		CTTGGAGCAC				
4441	AAGTAATTAA	TTTAAATTAT	ACATGTTTTG	AAGAAGTTTT	TTTTTGACAA	CTATA ΔΤΤΑΔ
4501	CACTAGAACT	GGGAAGTTTC	ΤΑΤΆΔΕςΤΑΔ	GAGAGGACAA	AATACACACT	CTCCTAACCT
		AGAAAGACTG				
		TTCTGGCTTT				
1.601	COMMMONA	CCCACACTCA	CAAGIGIICC	AIGIAIGGAC	TCATCAGGGA	GGTCCGAGAG
		CCCAGACTGA				
		TTATTTTGTG				
4801	TGATAATTCA	TAGTTTCTGA	CACATGCTCT	ATGCGTGGCT	CTCTTTTCTC	TATTCATTCT
		ATTTATTGTT				
		CTGCTGAGGT				
4981	TGGAGGAACT	GGGATGTGTA	CAAGGTGATC	TATTATAAGG	ATGGTGAAGC	TCTCAAGTAC
5041	TGGTATGAGA	ACCACAACAT	CTCCATTACA	AATGCCACAG	TTGAAGACAG	TGGAACCTAC
		GCAAAGTGTG				
		AGTTGGTAAA				
5221	CTTCTGAGCC	TGAGCAGTTG	CACCTTGTAG	AAGGGGGGGA	CCTCTCATAC	A CTICCA A A CC
5281	CTACCAGACT	TGCAATGAGG	ACACCTCCCT	CAMACMAMAM	AMCMCAAMCM	ACTGGAAAGC
		GTTAAATGGT				
		AATATTTGTG				
5461	AGATTGTGAT	TACTATTTTG	ATCTCAAAGT	CATCTGTTGC	TCCTGGGGGA	ACACTTATAT
5521	TTATCAAATT	GAAAAAAAGT	TTCAAAGTTG	AATGAAGAAA	GGATATAAAG	AGCTTGAGGA
5581	GCCCATTCCA	GCTTAGGAGG	GCTGGGAAAG	GAAACCAGCA	AGTCAGTAAG	CTGTGTGCCT
		GGAGGAGGGA				
5701	TATGGCCTGT	AAGAAAAACT	GCTCTCTCCA	AACTCTTTAT	AAGAGAGGGA	GCCTGTGAAG
5761	TATTCACTTT	TGAAGGAGAA	AGTTAGACTT	TTCCTTCACA	CACTTTGTAC	ATAATAATGT
5821	TTAAAAAAGC	ATGAGGTCAA	AATACATAAT	TAAGTCCTAG	CAGTTCTCTG	ΨΤΑΑСΤΑΆΤΤ
5881	TGAGACTGAA	GTGCTATGTA	CTTGTCTCTA	GGCTTCCAGT	ΑΤΟΤΤΟΙΟΙΟ	GTADADACACA
5941	АТАТТТССТС	TAGATTCCAT	TACAATCATT	TCATAACTTA	AICIICAICI	TCATCCTCAT
6001	CTCTCATTC	TTGAGATTCT	CAMMONATORII	CEMECCCCEC	CACCCCCCC	IGATGCTCAT
6061	UMCAMA COMO	TIGAGATICI	GATITAATIG	GITIGGGGTG	CAGCCTGGGT	ATACGTATTT
		TTTCACATAA				
		TGATTTCTGG				
PT81	AAAATCGGTA	CAGTTTATAA	ACAGACTAAC	AGAACCACAA	AATAATAGAA	TTGGAAGGCA
6241	ATTTAACTAG	TGCAATTTCT	TCATTTTGCC	TAACAGGCAT	GTAAGAAATG	ATGATTGATT
6301	GAGTAATAGG	CATTGATGAC	CCCTGTCCTC	ACTTTGTCCC	CTTTCCACCC	CTTAATTATA
6361	TGTGAATTCT	GGTCTTGTCA	TTTCGAATAA	GGGGTTTATC	TTTCCTATTG	TCTTCCCCTC
		ACACTGGCTA				
6481	AGGGAGCACC	AACAGAGCAA	CTCAACCTAG	TGTTAATCTG	AGTGTTTTCT	СТСТССТТСТ
6541	CCATCCCACA	TCACGCTAAA	AATGAAGGAC	AAAGCTTGGT	C_{μ}	GGGAGGATGA
6601	GGTTGCCACA				CTITUTIO	OGGOGGAIGA
	AACTCTGAAC	СТСАТТТТС	ΑGTTCCCΔΔC	<u>ልጥሮል ልጥጥ</u> ለጥር	արդություն չարա արա արա արա արա արա արա արա արա ար	CAUCUCUU
6661	AACTCTGAAC	CTCATTTTTC	AGTTCCCAAG	ATGAATTATG	TTTCTCATTG	CATCTGTGTT
6661	AACTCTGAAC CCACTACAGC	CTCATTTTTC TCCGCGTGAG TGTGGACACA	AGTTCCCAAG AAGTACTGGC	ATGAATTATG TACAATTTTT	TTTCTCATTG TATCCCATTG	CATCTGTGTT TTGGTGGTGA

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6781 TGAAGATTAA GAGAACCAGG AAAGGCTTCA GACTTCTGAA CCCACATCCT AAGCCAAACC 6841 CCAAAAACAA CTGATATAAT TACTCAAGAA ATATTTGCAA CATTAGTTTT TTTCCAGCAT 6901 CAGCAATTGC TACTCAATTG TCAAACACAG CTTGCAATAT ACATAGAAAC GTCTGTGCTC 6961 AAGGATTTAT AGAAATGCTT CATTAAACTG AGTGAAACTG GTTAAGTGGC ATGTAATAGT 7021 AAGTGCTCAA TTAACATTGG TTGAATAAAT GAGAAATGA ATAGATTCAT TTATTAGCAT 7081 TTGTAAAAGA GATGTTCAAT TTCAATAAAA TAAATATAAA ACCATGTAAC AGAATGCTTC 7141 TGAGTATCA AGGCTTGCTA GTTTGTTTGT TTGTTTTCTA CTAAAGGCAA GGACCATGAA 7201 GTTCTAGATT GGAAATGTC TCTCTTGACT ATTGCAAGTG CGATCTAGGA ATGAAAAGAC 7261 ATAGGAGGAT GCCAGTGAG TGGATCATTT TTATGCTTCT TCTTCAGCTT ACTAAATATG 7321 AACTTTCAGT TCTTGGCAGA ATCAGGGACA GTCTCAAGAC ATAGGACTCT CAGGATGAAG 7381 TAGAGTCCAG GATTCCTCT TGATTTTTT GCCCCTCCCA AATTTATATC TTGAACTTAT 7441 GTCTTGTATC TTTATACAGC ACCTGAACCA AGCATTTTGG AGAAATTCCA GCTAATAATA 7501 ATAACCAAAA CCTTCGGCTC TGAAAACAGT CCAGGACTGA ATAAGATCCT GGGCAAAAGA 7561 ACTAGACAGT TTTGGTTTAT TTTCCCTTTC ATTTTATGCT TTCATCATAG TCATTGGAGG 7621 CTCATTCTC TTGTCATGGA GTAAATGGGA TTAAAGGTC TTCATCATGA TCATTGGAGG
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(2) INFORMATION FOR SEQ ID NO:2502:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1198 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2502:
- 1 TACTAAGAGT CTCCAGCATC CTCCACCTGT CTACCACCGA GCATGGGCCT ATATTTGAAG 61 CCTTAGATCT CTCCAGCACA GTAAGCACCA GGAGTCCATG AAGAAGATGG CTCCTGCCAT 121 GGAATCCCCT ACTCTACTGT GTGTAGCCTT ACTGTTCTTC GCTCCAGATG GCGTGTTAGC 181 AGTCCCTCAG AAACCTAAGG TCTCCTTGAA CCCTCCATGG AATAGAATAT TTAAAGGAGA 241 GAATGTGACT CTTACATGTA ATGGGAACAA TTTCTTTGAA GTCAGTTCCA CCAAATGGTT 301 CCACAATGGC AGCCTTTCAG AAGAGACAAA TTCAAGTTTG AATATTGTGA ATGCCAAATT 361 TGAAGACAGT GGAGAATACA AATGTCAGCA CCAACAAGTT AATGAGAGTG AACCTGTGTA 421 CCTGGAAGTC TTCAGTGACT GGCTGCTCCT TCAGGCCTCT GCTGAGGTGG TGATGGAGGG 481 CCAGCCCCTC TTCCTCAGGT GCCATGGTTG GAGGAACTGG GATGTGTACA AGGTGATCTA 541 TTATAAGGAT GGTGAAGCTC TCAAGTACTG GTATGAGAAC CACAACATCT CCATTACAAA 601 TGCCACAGTT GAAGACAGTG GAACCTACTA CTGTACGGGC AAAGTGTGGC AGCTGGACTA 661 TGAGTCTGAG CCCCTCAACA TTACTGTAAT AAAAGCTCCG CGTGAGAAGT ACTGGCTACA 721 ATTTTTATC CCATTGTTGG TGGTGATTCT GTTTGCTGTG GACACAGGAT TATTTATCTC 781 AACTCAGCAG CAGGTCACAT TTCTCTTGAA GATTAAGAGA ACCAGGAAAG GCTTCAGACT 841 TCTGAACCCA CATCCTAAGC CAAACCCCAA AAACAACTGA TATAATTACT CAAGAAATAT 901 TTGCAACATT AGTTTTTTC CAGCATCAGC AATTGCTACT CAATTGTCAA ACACAGCTTG 961 CAATATACAT AGAAACGTCT GTGCTCAAGG ATTTATAGAA ATGCTTCATT AAACTGAGTG 1021 AAACTGGTTA AGTGGCATGT AATAGTAAGT GCTCAATTAA CATTGGTTGA ATAAATGAGA 1141 TATAAAACCA TGTAACAGAA TGCTTCTGAG TAAAAAAAA AAAAAAAAA AAAAAAAA

(2) INFORMATION FOR SEQ ID NO:2503:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 894 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2503:
- 1 TCTCAATATA ATAATATCT TTATTCCTGG ACAGCTCGGT TAATGAAAAA ATGGACACAG
 61 AAAGTAATAG GAGAGCAAAT CTTGCTCTCC CACAGGAGCC TTCCAGTGTG CCTGCATTTG
 121 AAGTCTTGGA AATATCTCCC CAGGAAGTAT CTTCAGGCAG ACTATTGAAG TCGGCCTCAT
 181 CCCCACCACT GCATACATGG CTGACAGTTT TGAAAAAAGA GCAGGAGTTC CTGGGGGTAA
 241 CACAAATTCT GACTGCTATG ATATGCCTTT GTTTTGGAAC AGTTGTCTGC TCTGTACTTG
 301 ATATTTCACA CATTGAGGGA GACATTTTTT CATCATTTAA AGCAGGTTAT CCATTCTGGG
 361 GAGCCATATT TTTTTCTATT TCTGGAATGT TGTCAATTAT ATCTGAAAGG AGAAATGCAA
 421 CATATCTGGT GAGAGGAAGC CTGGGAGCAA ACACTGCCAG CAGCATAGCT GGGGGAACGG
 481 GAATTACCAT CCTGATCATC AACCTGAAGA AGAGCTTGGC CTATATCCAC ATCCACAGTT
 541 GCCAGAAATT TTTTGAGACC AAGTGCTTTA TGGCTTCCTT TTCCACTGAA ATTGTAGTGA
 601 TGATGCTGTT TCTCACCATT CTGGGACTTG GTAGTGCTG GTCACTCACA ATCTGTGGAG
 661 CTGGGGAAGA ACTCAAAGGA AACAAGGTTC CAGAGGATCG TGTTTATGAA GAATTAAACA

- 721 TATATTCAGC TACTTACAGT GAGTTGGAAG ACCCAGGGGA AATGTCTCCT CCCATTGATT
- 781 TATAAGAATC ACGTGTCCAG AACACTCTGA TTCACAGCCA AGGATCCAGA AGGCCAAGGT
- 841 CTTGTTAAGG GGCTACTGGA AAAATTTCTA TTCTCTCCAC AGCCTGCTGG TTTT
- (2) INFORMATION FOR SEQ ID NO:2504:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11298 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2504:
- 1 AAGCTTTTCA AAGGTGCAAT TGGATAACTT CTGCCATGAG AAATGGCTGA ATTGGGACAC 61 AAGTGGGGAC AATTCCAGAA GAAGGGCACA TCTCTTTCTT TTCTGCAGTT CTTTCTCACC 121 TTCTCAACTC CTACTAAAAT GTCTCATTTT CAGGTTCTGT AAATCCTGCT AGTCTCAGGC 181 AAAATTATGC TCCAGGAGTC TCAAATTTTC TTATTTCATA TTAGTCTTTA TTTAGTAGAC 241 TTCTCAATTT TTCTATTCAT CACAAGTAAA AGCCTGTTGA TCTTAATCAG CCAAGAAACT 301 TATCTGTCTG GCAAATGACT TATGTATAAA GAGAATCATC AATGTCATGA GGTAACCCAT 361 TTCAACTGCC TATTCAGAGC ATGCAGTAAG AGGAAATCCA CCAAGTCTCA ATATAATAAT 421 ATTCTTTATT CCTGGACAGC TCGGTTAATG AAAAAATGGA CACAGAAAGT AATAGGAGAG 481 CAAATCTTGC TCTCCCACAG GAGCCTTCCA GGTAGGTACA AGGTATTATT TTTTTCTACC 541 CTCAGTCACT TGTGGCAGGG GAAGTCATAG TCACGGTGCT TAGGAGATGA AACTTTATTG 601 ATTTAGGCAT GGATCCATCT AGTTTAATTA ATATATTGGG TATGAGGAAG CTACTTGCTG 661 TACTTTCCAT GTGGTTCTCT CTCCCTGGAG AGGAACATTT TTACTCAGCT TGCAAACTGG 721 AAATAGATTT TCTCACATTA GAAGCTCATT TTCTGGGTAT GAGACAGGAG AGTTCATACT 781 GTGTATGTAG ATCTCTGGCT TCTGGGTCTG ACATGTGCTG AGGGACACAT ATCCTTCACA 841 CATGCTTTTA TAAATACTTG ATAAAGTAAC CTGCTTCTTG ATTGGTCTTT ATAATCCATA 901 AGCTGTGGGA TGCTTCTCTG AAGATGAAAA TAGTAATAGA GTCCCATCTA GCTATTCAAA 961 GCCATTCCTT CATTGTATTC TGTGCACATG AAGTTGGGGT TTGTTACTGA CAAAATATAT 1021 TCAGATACAT TTCTATGTTA AAAGGATTGT GAGATGCATA GGTAAATGTG TTTATTTTCA 1081 GTTTTACTTG TCAACATAGA TGAATGAGAA AGAACTTGAA AGTAACACTG GATTAAGAAT 1141 AGGAAAATTT GGCATGGATT TTGCTCCATT TTGTCCCATC TAATCACTTG GATAGTGTTC 1201 AGGTGTTCTT GGTCAGTTAC TTGGATGCTC TGAGCTTTAG TTTCTTGGTG ATTACAATGA 1261 AGATTTGAAT TACAGGATGG CTTTGAAAAA ATAAACAAAA CTCCCCTTTC TGTCTGTCGA 1321 GAATGTTGCA CAGGGAGTTA CAGAATGTTC TCATGACTGA ATTGCTTTTA AATTTCACAG 1381 TGTGCCTGCA TTTGAAGTCT TGGAAATATC TCCCCAGGAA GTATCTTCAG GCAGACTATT 1441 GAAGTCGGCC TCATCCCCAC CACTGCATAC ATGGCTGACA GTTTTGAAAA AAGAGCAGGA 1501 GTTCCTGGGG GTGAGTGAGC CTCCTCCAAC TTTGACTAGA GTAAGGGTTG GGTCTAGAAA 1561 AGAATATTGA GTTGCATCAA CTGTTTTCCC ACTTGGATTC ATGAGAGGTG TTAGGTCCTT 1621 TAAAAAACAT GGTAGATAAA GAGTTGACAC TAACTGGGTC CTTTTGGGAA GAGCCAGAAG 1681 CATTTCCTCA TAAAGACTTT AAATTGCTAG GACGAGAATG GCCAACAGGA GTGAAGGATT 1741 CATAACTTTA TCTTTACTTA GATGTAAAGA ACAATTACTG ATGTTCAACA TGACTACATA 1801 CATAAAGGCG CATGGAGAAA AGTATTGGCC TTCCATGCAT TAGGTAGTGC TTGTATCAAT 1861 TCTTATAGTG GCTAGGGTAT CCTGGAAAAT CTTACGTGTG GATCATTTCT CAGGACAGTC 1921 TAGGACACTA ACGCAGTTTC TCATGTTTGG CTTCTATTAT TAAAAAATGA TACAATCTCG 1981 GGAAAATTTT TTTGATTTTC ATGAAATTCA TGTGTTTTTC TATAGGTAAC ACAAATTCTG 2041 ACTGCTATGA TATGCCTTTG TTTTGGAACA GTTGTCTGCT CTGTACTTGA TATTTCACAC 2101 ATTGAGGGAG ACATTTTTC ATCATTTAAA GCAGGTTATC CATTCTGGGG AGCCATATTT 2161 GTGAGTATAT ATCTATAATT GTTTCTGAAA TAACACTGAA CATAGGTTTT TCTCTTTCTC 2221 AGATCTAACC AGTTGTTTAT TCCCAGTATT AAGATGATAT TTATAATTCT TAATTATAAA 2281 TATATGTGAG CATATATAAC ATAGATATGC TCATTAACAA CAACAAAAGA TTCTTTTTAC 2341 AATTAACGGT GGGTTAAACA TTTAGCCCAC AGTTTTATCC CATGAGAAAC CTGAATCTAA 2401 TACAAGTTAA ATGACTTGCC TAAGGGCCAC TTGACTAATA GTAATTGAAC CTAAACTTTC 2461 AGAATCCAAC TCCAGGAACA TACTTCTAGC ACTATTCATC AATAAAGTTA TATGATAAAT 2521 ACATACAACT TTATCTGTCA ACTAAAAATA ACAACAGAGG CTGGGCATGG TGGCTCACAC 2581 CCGTAATCCC AGCACTTTGG GAGGCTGAGG CAGGTGGATC ACCTGAGGTC AGGAGTTTGA 2641 GACCAGCCTG ACCAACATGG TGAAACCTCA TCTCTACTAA ATATAAAAAA TTAGCTGAGT 2701 GTGATAGTGC ATACCTGTAA TCCAGCTACT TAAGAGGCTG AGGCAGGAGG CTTGTTTGAA 2761 CCTGGAAGGC AGAGGTTGCA GTGAGCTGAG ATTGTGCCAT TGCACTCCAG CCTGGGCAAT 2821 AAGTGCGAAC TCTGTCTCAA AATAATAATA ATAATAATAG AAAATAAAGT TGTCTTCATG 2881 AAAAATGAGG AAAGAGATTG CTGGGGTGAG AAACATTAAG ATCAATGGGC ATATGGTGAC

2941 CTTCTATGCC CTAGAAACTC TTTTANGGTA TTTTCTCCTG GTATCTCTTT TACNCATCGT 3001 TCTATCTGGA AAAATAGGTG GATGAGTGAG ATAATAACGG TATATACTTT TTAAAGGTCT

3061	AATTGACATA	TATAAATTGC	AAGTATTTCA	GATGTCAATT	TGCTAACCTT	GACACACATA
3121	GACACACATG	AAAACATCAC	${\tt CACATTAATA}$	CAATGTATGT	ATCCATCATT	CCAAAAGCTT
3181	CCCTGTGTAT	CTTTGTAACT	CTTTCTTCCT	CCCTCCACTC	CTTGTCCTCT	CGTTCCCAAG
3241	AAAACATTGA	TCTGCTTCCT	GTGAATATAA	ATTAACTTAC	ATTTTTTAGA	GCTTTATATA
3301	AGTATGTTCT	CTTTACTGTT	TGTCTTCCTT	CGCTGCACAG	TTATTTTGAG	ATTCTTCAAG
3361	TTTTTTCTTT	ATATCGATAC	TTCATTCACA	AGAATATATT	TTAATTCTAG	ACTATGTCAC
3421	ATTGACTTTG	TCGTCTGCTA	AATCCTTAGT	GCTCAGATGA	CTTGTTCAGG	ACTCTCCTTG
3481	AACCTGTACC	TCTGTTANAT	TGAAACTTGT	CTCTACTGTC	TTTTTATTTC	AAACACAGCT
3541	TATTAGGTGT	CTCTCAACCC	ATCAAACNCA	CAATCTGAGT	CTTTAGGAGA	TTGCTTTGAA
3601	TTTGTGCTAT	TGACTTATAT	NTATATNAAA	TNTGTAAATG	TTTGGTAAAA	ATATCATCAT
3661	GTACNTTTTC	ATAATTACGC	TATNTNCACA	TGATATATGT	CAGACTCTGG	AAATATGCAT
3721	GCCACAGACA	CGTGTTTCTT	GCCTAAAGGG	GCTGATGGAA	GACNCACATA	CNAATAGACG
3781	ATTGCAGTAG	AATGAGAGTG	GTGGTCTAAN	CAGTACATGT	CCTGATGTTG	CTCGGACAGT
3841	TACTACNCCA	AGAGTACCCC	CTGCATTGTC	AGGGTTAGCA	TCTCCTGGAA	GCCTCATGTA
3901	AATGAAGAAT	TTCATGCTCC	ATCCAGGACC	TAATGAATAA	GAATCTGCAT	TTTAGCAAGA
3961	CCCTCATATG	ATTCATATAC	ACTTTTTTT	${\tt TTTTTTTTA}$	GATGGAGTCT	CACTCTTGTC
4021	GCCCAGGCTG	GAGTGCAATG	GCATGATCTT	${\tt GGCTCACTGC}$	AACCTCTGCC	TCCCGGGTTC
4081	AAGTGATTCT	CCTGTCTCAG	CCTCCCTAGT	AGCTGGGACT	ACAGGTGCAT	GCCACAGTGG
4141	CTGGCTAATT	TTTGTATTTT	TAGTAGAGAC	AGGGTTTCAC	CATTTTGGTC	AGGCTGGTCT
4201	TGAACTCATG	ACCTCCGGTG	ATTCCCCCGC	CTCGGCTTCC	CAAAGTGCTG	GGATTACAGA
4261	CATGAGCCAC	CACACCCGCC	TTATTCGTAT	ACNCATTTAA	TTCTGAGAAG	CACTCTATAG
4321	AAAATAAGAA	TAAGAAAATA	TTGGGCTCAC	AGGTGACATT	AATAAGTAAC	TTTATCGAGT
4381	ACCCCAAATT	TTACCTATGT	TTGGAAGATG	GGGTTAAAAG	GACACATTGA	AAACAAGAAC
4441	TCATTGTGGC	TTTTTTTTCC	TCCTTTTTGA	${\tt ACAGTTTTCT}$	ATTTCTGGAA	TGTTGTCAAT
4501	TATATCTGAA	AGGAGAAATG	CAACATATCT	${\tt GGTGAGTTGC}$	CCGTTTCTGT	CTTTGTCCAT
4561	CCTTGAAAAG	ATAAGAAGAA	CAGAGTTTTA	${\tt AGAGTCTTAA}$	GGGAAACACA	TCTTTGTCTC
4621	CTATATTACT	TGTGAATGTG	GATATATGAT	TTTGTTTCAA	TCTATTTTGT	GTCCTAAGGC
4681	TTTTTGCAAC	AGAAGTTGGA	TATATCATTA	GAAACATAAA	TTGTACCATT	TAACATACAT
4741	GAAGTTTATG	TTTACCTTGA	CGTTCTTCTA	AAAAGTGTCC	TACACCGGCA	TTGTCCTTGT
4801	AGGCATATTC	ACATGATCAA	ATAAAATAAT	TAGTTTTCAA	TTAAGGAGAA	TATTTGAGGA
4861	AAGACCGTAC	GTGTTCATGT	GGTTCCTGAA	GGCAGTCCAG	TGAGAAAGTA	ATATATGCTT
4921	CATTAAACAA	TGCGGACATT	TTCAGGGTTT	CCCTTTTTAA	CCAAAATTTG	GAAGCAATGT
		GGATGCATCC				
5041	GTGCAGGCCC	AGGTCTGAGT	GTTCTTCATT	ATTATCAGGT	GAGAGGAAGC	CTGGGAGCAA
		CAGCATAGCT				
5161		CTATATCCAC				
5221		TTCCACTGTA				
5281		AAGAAGCCCT				
5341		TATAGTGGTT				
5401	TCCCCTCAAC	CCAGGCAAAT	TCCTCGGGGT	TAAAGTTATC	TACTGCAAGT	GACGATCTCT
5461	GGGTTTTTCT	GTGCCTGTGT	TTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTATGTGTCA
		ACTGGTCAGA				
		CGAATACCAA				
		GATGATGCTG				
		AGCTGGGGAA				
		ACAGGTTAAC				
		CTTCCAGAAA				
		CACATTTTAT				
		AATAGGACTG				
		GAAGGCTTGT				
		CCTATTCCTG				
		AAACCTCAGT				
		CGTCCATTAC				
		GATGGAAGAA				
		CTTTTAAAAT				
		GTGAGGCTGA				
		GCAAAACCAA				
		CAACAAAACA				
		AGGTACCTGA				
6601	03000			$\iota \cdot \lambda \iota \cdot \lambda \tau \tau \tau \Delta \tau \tau$	・・ハロックとこれとと	
~~~	GAGCCCAAGA					
	GACAGAGCCA	GATGGAGGTT TACTTCCCAG CCAGCCTGGC	CACATTGGGA	GGCCAAAGCT	GAAGAATAAT	TTGAGGTGAG

6701	MA CHCCCCCA	mcccccca* a*	01.00mom11.m			
		TGGGGGCACA				
		CCCGGGAGGC				
		CATAGTGAGA				
		GATAGATAAA				
		ACATGATTTC				
		AAATAATCAG				
		AAGTCTCTTG				
7201	TGAAATGATT	TTTCCCTTAT	CAGGTTCCAG	AGGATCGTGT	TTATGAAGAA	TTAAACATAT
7261	ATTCAGCTAC	TTACAGTGAG	TTGGAAGACC	CAGGGGAAAT	GTCTCCTCCC	ATTGATTTAT
7321	AAGAATCACG	TGTCCAGAAC	ACTCTGATTC	ACAGCCAAGG	ATCCAGAAGG	CCAAGGTTTT
		TACTGGAAAA				
		GATAAGAATA				
		ATATGATAGA				
		GTCAACATGT				
7621	ACAGAAAAA	AGAAGGCTGG	CTGAAAGTTG	ΑGTTAAACTT	TGACAGTTTG	ΔΤΔΔΤΔΤΤΤΤ
7681	GTTCTTAGGG	TTTTTTTTT	TTTTAGCATT	СПОТТИВЛЕТТ	ACAGTTGGGC	ATCATTATIO
7741	CCATCCACCC	ATACCCACAC	AGTCACAGTC	ACACACACAT	አጥርጥአጥጥአርጥ	TACACTATAT
7801	ΔΤΑΔΟΤΤΟΟΤ	ATGCAAATAT	TTTTACCACCA	CTCAATAATA	CARRETTECC	AACACIAIAI
		GATCTGTATA				
		ACAAGTAGGA				
		AAAAACAGGG				
		GTGAAAAAAG				
		AATGGTTATA				
		AGAATAAAGT				
		AAGGAGAACA				
		CTGTAATCCC				
		CCAGCCTGGC				
		GGGTGTGGTG				
8461	GGAGAATCGC	TTGAACCTGG	GAGGCGGAGG	TTGCAGTGAG	CCGAGATCGC	ACCAGTGCAC
		GTGACAATGG				
		AATCTGAAAA				
8641	TTTTGGCTTT	GATTTTGGGG	AGACAAAGGG	AAATGCAGCC	ATAGAGGGCC	TGATGACATC
		GTTCTGGTAA				
8761	AATCATTATT	AAATGAAGCA	AGTTAACACT	CTAAGAGAAT	TATTTTGAGA	TAGAAGTGAA
8821	GCTAAGCTAA	ACTTCACATG	CCTATAATTG	GAGGGAAAAA	CTAAGGATAA	AATCTAGCCT
		ATAATTAGTC				
		AGATTAGATA				
9001	TTGGGCAAGA	GAAAAGTCCA	CAGTGATAAG	CAACTCCACC	TAAGGCATGA	ATATGCGGCA
		CAATAGTGAA				
		TAAATGAATA				
9181	TATGTGCGAA	ATAAGATAGT	TGATTATGAA	TAGAAGGTAG	TGAAGAAAG	CAAGCTAAGA
9241	AAAAATTCTG	TTTATAAAAG	AAGGAAAAGA	TAGTTTATGT	TTTTAGCCTA	ACTATAACAC
9301	TCCTACAGAT	GGACTGAAAA	AAATCAGTCT	GAGAGTATTA	GTCACAATTA	ΔΤζΔΔΔΤΔΔΤ
9361	TACATTTTAT	GTATTGAGGA	TGCCAAGATT	AAAAGGTGAC	AGGTAGATGT	TAATTTCCCT
9421	AGATTGTGAA	AGTGATCACG	ACAATCACAC	ΑΑΓΔΑΔΤΑΑΤ	TAACTCACTT	CCTATCCTT
9481	ATTTAATTGT	AGGGCCTGAG	GTTTTCCATT	СФСФФФФФФ	ΤΑΛΟΙΘΑΟΙΙ	TGIAIGCIII
9541	ССАААТТТСА	CAGCAGAATA	AAAACCCTAC	CCTTTCACTC	TANAMIACAA	TANCORCOAR
9601	CTCTACTCTT	GATCATCTGT	AGGTATTAAT	CACATCACIG	TGIMICAIGC	CAMCAMCACACA
9661	TACACACTCT	TAACCCTGGT	TTACCACCAC	CHCHICACII	CCATGGCATG	GAIGIICACA
9721	CACTTCTATA	GTATATGATA	TACCAGGAC	CICIAGGAGI	GGAICCAAIC	TATATCTTTA
9721		TATACACAAC	ACACAAMMEN	TCACTCAAT	CHCARCATTTC	ATCATTGACT
00/1	TCCCCCACCC	TATACACAAC	ACACAATTTA	TGAATTTTTT	CTCAAGATCA	TTCTGAGAGT
2041	TIGOCCOMMONO	TACCTGCCTT	CACTACTACG	AAMMOMOMOM	GUAGACACAG	AGCACAATGC
2201	CAMCOMOCOCC	TTCACACTAT	CACTGCCCCA	AATTGTCTTT	CTAAATTTCA	ACTTCAATGT
10001	CATCTTCTCC	ATGAAGACCA	CTGAATGAAC	ACCTTTTCAT	CCAGCCTTAA	TTTCTTGCTC
10021	CATAACTACT	CTATCCCACG	ATGCAGTATT	GTATCATTAA	TTATTAGTGT	GCTTGTGACC
10081	TCCTTATGTA	TTCTCAATTA	CCTGTATTTG	TGCAATAAAT	TGGAATAATG	TAACTTGATT
10141	TCTTATCTGT	GTTTGTGTTG	GCATGCAAGA	TTTAGGTACT	TATCAAGATA	ATGGGGAATT
10201	AAGGCATCAA	TAAAATGATG	CCAAAGACCA	AGAGCAGTTT	CTGAAGTCCT	CCTTTTCATC
10261	AGCTCTTTAT	CAAACAGAAC	ACTCTATAAA	CAACCCATAG	CCAGAAAACA	GGATGTAGGA
10321	ACAATCACCA	GCACACTCTA	TAAACAACCC	ATAGCCAGAA	AACAGAATGT	AAGGACAATC
10381	ACCAGCCATC	TTTTGTCAAT	AATTGATGGA	ATAGAGTTGA	AAGGAACTGG	AGCATGAGTC
10441	ATATTTGACC	AGTCAGTCCT	CACTCTTATT	TACTTGCTAT	GTAAACTTGA	GAAAGCTTTT

## (2) INFORMATION FOR SEQ ID NO:2505:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 21802 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2505:

1	AACAAGAAAA	GCGTTGGTAG	CTCTGGTGAA	TCCCAAAAGA	ATGTGGCAGT	TGCTAGCCAT
61	GCTCCTGAAT	ATGTATAAAC	AGTACATCAT	ATGACTAAGA	GTTTGACTTA	GGGGTTAGAT
121	TTTATGTGTT	TGAACCCCAA	ATTAGTTATT	TAATAGTTGG	CACCCCAAAA	CAAGTTACTT
181	AACCTCACTA	AGGTTCAGTT	TTCCTGTTTA	TAAAATGTAG	ATAGTGATAG	TATGTACTTT
241	ATAGGATTAT	TGTGAAAAAT	AAATGAAATA	TCAGATTTAT	TTAGGATAAC	ACCTGGCATA
301	TGTTTGGTAT	TCAGAATTAG	TTGCTGCTGT	TTTATTCTGC	TCTCCCTTGC	ATCCCACTTT
361	TCTAAGTTGT	AAACTAAATA	GTTGTACACA	GATTGACAGA	TTAAGAAAGG	CTTGTGATTG
421	TGCTAGACCT	ATGCCTATGC	CTCTGTCTCA	CCAGATTCCA	GGTGTATATG	TGGAGGTGGG
481	ATAGGGAGTG	GAGTAAGTGG	GTAAATATTA	AATTGCCCAG	TTGGGCACCA	TCCTGAATAT
541	TATCTCTAAA	GAAAGAAGCA	AAACCAGGCA	CAGCTGATGG	GTTAACCAGA	TATGATACAG
601	AAAACATTTC	CTTCTGCTTT	TTGGTTTTAA	GCCTATATTT	GAAGCCTTAG	ATCTCTCCAG
	CACAGTAAGC				3 mm a 3 a a 3 a m	~m~m~~~~~
	GATCTTCATG					
	GAGCAAGGTA					
	CTGTCCCTGT					
874	TCTTTGCAAA	TGACAAGCCA	CTATAGACAT	TAATAGAGTT	TTCATTTCCA	GTATTATCAT
934	TAATATCAGA	TCCTGGAAGA	AGGTTGAGCC	TTGACCTAGA	GCAAAAAAAC	AGAAGAATTA
	GTAAAGGAAT					
	GGGAAATTAT					
	GCCTAGATCC					
	GGCACAGTAG					
1234	ATCATCAGTG	AATCAGATGA	AAATTTGTGG	ATTTATGCAC	TAACTGATCA	GCAGGAAATT
1294	AAACAAGAAA	AGCGTTGGTA	GCTCTGGTGA	ATCCCAAAAG	AATTTGGCAG	TTGCTAGCCA
	TGCTCCTGAA					
	TTTTATGTGT					
1474	TAACCTCACT	AAGATTCAGT	TTTCCTGTTT	ATAAAATGTA	GATAGTGATA	GTATGTACTT
1534	TATAGGATTA	TTGTGAAAAA	TAAATGAAAT	ATCAGATTTA	TTTAGGATAA	CACCTGGCAT
1594	ATGTTTGGTA	TTCAGTAATT	AGTTGCTGCT	GTTTTATTCT	GCTCTCCCTT	GCATCCCACT
	TTTCTAAGTT					
	TGTGCTAGAC					
	GGAGTGGAGT					
	TCTAAAGAAA					
1894	CATTTCCTTC	TGCTTTTTGG	TTTTAAGCCT	ATATTTGAAG	CCTTAGATCT	CTCCAGCACA
	GTAAGCACCA					
	GTGTAGCCTT					
	ATGAATTTGG					
	CATGTGCAAA					
	AGGCAAGTGG					
	TTTGCTCTGG					
	AAAGAAGCTC					
	CATGGATGTA					
23/4	CAIGGAIGTA	GATCTTATCC	CCACACCCAG	ATTCTAGTCC	TCTGGAGATA	AAGAAGACTG

0404						
		ATGTATCCTC				
2494	GTCCTCTGTT	CTTGTTCCCT	TGGTGTATCA	ACATGTCTGG	GCATTGCTTT	CCTCTCACTA
2554	TTTTCTTCGT	CCCATCACTT	CTGCTTTCTA	ATGAGCATGA	ATCTGTTCCT	TGGCCAGACT
2634	ACTTTCCCTC	TCCACCTTGC	CTTGTCTTTC	TTTTTTTCCC	TGATTCATTG	CATTCTCTCA
2694	AGTCATTCTC	TCCTCTGTTT	TAGTCAATAA	CCATGTCTGT	TGCACATATA	CATGTCTCAT
		AGACACTTTG				
		TTGAGGATGC				
		ACGTAAGTTC				
		CCATGTATCT				
3014	GTTCCAGGAA	GCCATTCAAG	ACTGACTTTC	TTAGTGCCTC	TCACTACTTT	CTGGAACTGA
3074	CATATGTTTT	TCACTCTGTA	TATACTTACA	ATTAAATAGT	CATAAATATT	CAGAGCTTGG
3134	AGAAACCTTA	TATTTCATCC	AGTCCAGTAA	ATTTATCCAT	CCATAATTCA	CTCATTCATT
3194	CACATAATAA	ATATTTAATG	TAACAATGGT	TGAACATGGC	AGACAGTGTT	TCTACCTCAA
3274	AAGAGATTGC	AGTCCTCATT	TACAGATACT	GAATTGAAAT	TAACAGAAGT	AGAGTGAGTC
		ACATAGTGAA				
		TGTGTTGGGC				
		GGGTCTTATC				
		TTTGTACTTT				
		TATTTTTATC				
3554	TCCATGGAAT	AGAATATTTA	AAGGAGAGAA	TGTGACTCTT	ACATGTAATG	GGAACAATTT
3614	CTTTGAAGTC	AGTTCCACCA	AATGGTTCCA	CAATGGCAGC	CTTTCAGAAG	AGACAAATTC
3674	AAGTTTGAAT	ATTGTGAATG	CCAAATTTGA	AGACAGTGGA	GAATACAAAT	GTCAGCACCA
3734	ACAAGTTAAT	GAGAGTGAAC	CTGTGTACCT	GGAAGTCTTC	AGTGGTAAGT	TCCAGGGATA
		GATCTCTCAT				
		TAGGACACCA				
		CAGTGGCTCA				
		CAGGAGATCG				
		TATATAAAAT				
		AGGCAGGAGA				
4174	ATCACGCCAC	TGCCCTCCAG	CCTGGGCTAC	AGAGCAAGAC	TCCGTCTCAA	AAAATAAATA
4234	AATAAATAAA	AAAGACCCCT	GCATCTCTTT	TCTTCTACCC	CCTTCCCTTT	TGATTACTTG
4294	TATGCCTTCT	TTCAATATTC	TAGTCATCTC	TCAATATTAT	TCCTCCACCC	TATTTTCCTC
4354	TATCTTTTCT	GCCTAGATTC	AGGTATATAT	TATGTGGTCA	AACAGCATGA	CATATATGTG
4414	AACATTTCAA	AGAGCTGTGT	ATCTGGAATA	GGATCAAAAG	GTTTGACTTA	AAGTTTTGCT
4474	CTGCATAATC	CATATGGCAG	GACCTGAATA	TTAGGTTGTA	CTCTTCGTTA	TGAAACATAT
		TTCCTTATGT				
		ACTCCTACTG				
		TTGAATAAAC				
				-		
		TTTTCTCTTG				
		AAGCAATGTA				
		TGGTCCTAAA				
4894		ATGAATGCTT				
4954	TGTCTTTCAC	TGACTCATTA	GTGACAAATA	TTTGTTGAGT	ACCTACCAAC	TCCTAAGTAT
5014	TGCTACCAAC	TCCTAAATAC	TGTGTTGGGC	ATTCAGAATA	GAATGTAGAA	CTAGACAGGG
5074	TCCCTGACTT	CTTGGAGCAC	AGAGCAGTAT	GGGAAGAGGA	CATTAAATAA	AGAATTACAT
5134	AAGTAATTAA	TTTAAATTAT	ACATGTTTTG	AAGAAGTTTT	TTTTTGACAA	CTATAATTAA
		GGGAAGTTTC				
		AGAAAGACTG				
		TTCTGGCTTT				
		CCCAGACTGA				
		TTATTTTGTG				
		TAGTTTCTGA				
		ATTTATTGTT				
		CTGCTGAGGT				
		GGGATGTGTA				
5834	TGGTATGAGA	ACCACAACAT	CTCCATTACA	AATGCCACAG	TTGAAGACAG	TGGAACCTAC
5894	TACTGTACGG	GCAAAGTGTG	GCAGCTGGAC	TATGAGTCTG	AGCCCCTCAA	CATTACTGTA
		AGTTGGTAAA				
		TGAGCAGTTG				
		TGCAATGAGG				
		GTTAAATGGT				
0134	ITMAIGIGGT	AATATTTGTG	AMMIGNOTIT	GIAAACIGIT	ANGUACTACC	CAAGCATAAC

6254	AGATTGTGAT	TACTATTTTG	ATCTCAAAGT	CATCTGTTGC	TCCTGGGGGA	ACACTTATAT
		GAAAAAAAGT				
		GCTTAGGAGG				
6434	GTGTATTGAG	GGAGGAGGGA	ATGGACTTGA	TATGGAGAGG	GTAGGGAGGT	GGACTGCCTC
6494	TATGGCCTGT	AAGAAAAACT	GCTCTCTCCA	AACTCTTTAT	AAGAGAGGGA	GCCTGTGAAG
6554	TATTCACTTT	TGAAGGAGAA	AGTTAGACTT	TTCCTTCACA	CACTTTGTAC	ATAATAATGT
6614	TTAAAAAAGC	ATGAGGTCAA	AATACATAAT	TAAGTCCTAG	CAGTTCTCTG	TTAACTAATT
		GTGCTATGTA				
		TAGATTCCAT				
		TTGAGATTCT				
		TTTCACATAA				
		TGATTTCTGG				
		CAGTTTATAA				
		TGCAATTTCT				
		CATTGATGAC				
		GGTCTTGTCA				
7214	TGGGCACGGC	ACACTGGCTA	CTGGAGTTAA	GAGGAAATGC	TTAGGACTCC	CTGTGGCTCC
		AACAGAGCAA				
		TCACGCTAAA				
7394	AACTCTGAAC	CTCATTTTTC	AGTTCCCAAG	ATGAATTATG	TITCTCATTG	CATCTGTGTT
		TCCGCGTGAG				
		TGTGGACACA				
		GAGAACCAGG				
		CTGATATAAT TACTCAATTG				
		AGAAATGCTT				
		TTAACATTGG				
		GATGTTCAAT				
		AGGCTTGCTA				
		GGAAATGTCC				
		GCCAGTGAGG				
		TCTTGGCAGA				
		GATTCCTCTG				
		TTTATACAGC				
		CCTTCGGCTC				
8314	ACTAGACAGT	TTTGGTTTAT	TTTCCCTTTC	ATTTTATGTC	TTCATCATAG	TCATTGGAGG
		TTGTCATGGA				
		CTCCAGCATC				
		CTCCAGCACA				
121	GGAATCCCCT	ACTCTACTGT	GTGTAGCCTT	ACTGTTCTTC	GCTCCAGATG	GCGTGTTAGC
181	AGTCCCTCAG	AAACCTAAGG	TCTCCTTGAA	CCCTCCATGG	AATAGAATAT	TTAAAGGAGA
241	GAATGTGACT	CTTACATGTA	ATGGGAACAA	TTTCTTTGAA	GTCAGTTCCA	CCAAATGGTT
		AGCCTTTCAG				
		GGAGAATACA				
		TTCAGTGACT				
		TTCCTCAGGT				
		GGTGAAGCTC				
		GAAGACAGTG CCCCTCAACA				
		CCATTGTTGG				
		CAGGTCACAT				
		CATCCTAAGC				
041	TOTGMACCCA	AGTTTTTTC	CAGCATCAGC	APTICATOR	CAATTCTCAA	ACACAGCTTG
		AGAAACGTCT				
		AGTGGCATGT				
		ATTCATTTAT				
1141	ТАТАВАТАС	TGTAACAGAA	ТССТТСТСАС	TAAAAAAAA	AAAAAAAAA	AAAAAAAA
1 1 1 1	TCTCAATATA	ATAATATTCT	TTATTCCTGG	ACAGCTCGGT	TAATGAAAAA	ATGGACACAG
		GAGAGCAAAT				
121	AAGTCTTGGA	AATATCTCCC	CAGGAAGTAT	CTTCAGGCAG	ACTATTGAAG	TCGGCCTCAT
181	CCCCACCACT	GCATACATGG	CTGACAGTTT	TGAAAAAAAGA	GCAGGAGTTC	CTGGGGGTAA
241	CACAAATTCT	GACTGCTATG	ATATGCCTTT	GTTTTGGAAC	AGTTGTCTGC	TCTGTACTTG

				CATCATTTAA		
				TGTCAATTAT		
				ACACTGCCAG		
481	GAATTACCAT	CCTGATCATC	AACCTGAAGA	AGAGCTTGGC	CTATATCCAC	ATCCACAGTT
				TGGCTTCCTT		
				GTAGTGCTGT		
661	CTGGGGAAGA	ACTCAAAGGA	AACAAGGTTC	CAGAGGATCG	TGTTTATGAA	GAATTAAACA
721	TATATTCAGC	TACTTACAGT	GAGTTGGAAG	ACCCAGGGGA	AATGTCTCCT	CCCATTGATT
781	TATAAGAATC	ACGTGTCCAG	AACACTCTGA	TTCACAGCCA	AGGATCCAGA	AGGCCAAGGT
841	CTTGTTAAGG	GGCTACTGGA	AAAATTTCTA	TTCTCTCCAC	AGCCTGCTGG	TTTT
1	AAGCTTTTCA	AAGGTGCAAT	TGGATAACTT	CTGCCATGAG	AAATGGCTGA	ATTGGGACAC
61	AAGTGGGGAC	AATTCCAGAA	GAAGGGCACA	TCTCTTTCTT	TTCTGCAGTT	CTTTCTCACC
				CAGGTTCTGT		
				TTATTTCATA		
				AGCCTGTTGA		
				GAGAATCATC		
				AGGAAATCCA		
				AAAAAATGGA		
				GGTAGGTACA		
				TCACGGTGCT		
				ATATATTGGG		
				AGGAACATTT		
				TTCTGGGTAT		
				ACATGTGCTG		
				CTGCTTCTTG		
				TAGTAATAGA		
				AAGTTGGGGT		
				GAGATGCATA		
				AGAACTTGAA	•	
				TTGTCCCATC		
1201	AGGTGTTCTT	GGTCAGTTAC	TTGGATGCTC	TGAGCTTTAG	TTTCTTGGTG	ATTACAATGA
				ATAAACAAAA		
				TCATGACTGA		
				TCCCCAGGAA		
				ATGGCTGACA		
				TTTGACTAGA		
				ACTTGGATTC		
				TAACTGGGTC		
1681	CATTTCCTCA	TAAAGACTTT	AAATTGCTAG	GACGAGAATG	GCCAACAGGA	GTGAAGGATT
1741	CATAACTTTA	TCTTTACTTA	GATGTAAAGA	ACAATTACTG	ATGTTCAACA	TGACTACATA
1801	CATAAAGGCG	CATGGAGAAA	AGTATTGGCC	TTCCATGCAT	TAGGTAGTGC	TTGTATCAAT
1861	TCTTATAGTG	GCTAGGGTAT	CCTGGAAAAT	CTTACGTGTG	GATCATTTCT	CAGGACAGTC
1921	TAGGACACTA	ACGCAGTTTC	TCATGTTTGG	CTTCTATTAT	TAAAAAATGA	TACAATCTCG
1981	GGAAAATTTT	TTTGATTTTC	ATGAAATTCA	TGTGTTTTTC	TATAGGTAAC	ACAAATTCTG
				GTTGTCTGCT		
				GCAGGTTATC		
				TAACACTGAA		
2221	AGATCTAACC	AGTTGTTTAT	TCCCAGTATT	AAGATGATAT	TTATAATTCT	TAATTATAAA
2281	TATATGTGAG	CATATATAAC	ATAGATATGC	TCATTAACAA	CAACAAAAGA	TTCTTTTTAC
				AGTTTTATCC		
				TTGACTAATA		
				ACTATTCATC		
				ACAACAGAGG		
				CAGGTGGATC		
				TCTCTACTAA		
				TAAGAGGCTG		
				ATTGTGCCAT		
				ATAATAATAG		
				AAACATTAAG		
				TTTTCTCCTG		
				ATAATAACGG		
3061	AATTGACATA	TATAAATTGC	AAGTATTTCA	GATGTCAATT	IGCIAACCIT	GACACACATA

2101	C. C. C. C. C. C. C.					~~~~~
	GACACACATG					
	CCCTGTGTAT					
	AAAACATTGA					
	AGTATGTTCT					
	TTTTTTCTTT					
	ATTGACTTTG					
3481	AACCTGTACC	TCTGTTANAT	TGAAACTTGT	CTCTACTGTC	TTTTTATTTC	AAACACAGCT
3541	TATTAGGTGT	CTCTCAACCC	ATCAAACNCA	CAATCTGAGT	CTTTAGGAGA	TTGCTTTGAA
3601	TTTGTGCTAT	TGACTTATAT	NTATATNAAA	TNTGTAAATG	TTTGGTAAAA	ATATCATCAT
3661	GTACNTTTTC	ATAATTACGC	TATNTNCACA	TGATATATGT	CAGACTCTGG	AAATATGCAT
3721	GCCACAGACA	CGTGTTTCTT	GCCTAAAGGG	GCTGATGGAA	GACNCACATA	CNAATAGACG
3781	ATTGCAGTAG	AATGAGAGTG	GTGGTCTAAN	CAGTACATGT	CCTGATGTTG	CTCGGACAGT
3841	TACTACNCCA	AGAGTACCCC	CTGCATTGTC	AGGGTTAGCA	TCTCCTGGAA	GCCTCATGTA
3901	AATGAAGAAT	TTCATGCTCC	ATCCAGGACC	TAATGAATAA	GAATCTGCAT	TTTAGCAAGA
	CCCTCATATG					
	GCCCAGGCTG					
	AAGTGATTCT					
	CTGGCTAATT					
	TGAACTCATG					
	CATGAGCCAC					
	AAAATAAGAA					
	ACCCCAAATT					
	TCATTGTGGC					
	TATATCTGAA					
	CCTTGAAAAG					
	CTATATTACT					
	TTTTTGCAAC					
4741	GAAGTTTATG	TTTACCTTGA	CGTTCTTCTA	AAAAGTGTCC	TACACCGGCA	TTGTCCTTGT
4801	AGGCATATTC	ACATGATCAA	ATAAAATAAT	TAGTTTTCAA	TTAAGGAGAA	TATTTGAGGA
4861	AAGACCGTAC	GTGTTCATGT	GGTTCCTGAA	GGCAGTCCAG	TGAGAAAGTA	ATATATGCTT
4921	CATTAAACAA	TGCGGACATT	TTCAGGGTTT	CCCTTTTTAA	CCAAAATTTG	GAAGCAATGT
4981	GGAATTTACT	GGATGCATCC	AGCCCTGAAA	TGAAGATAGG	TTTATTGAAT	GTGCCAGCAA
5041	GTGCAGGCCC	AGGTCTGAGT	GTTCTTCATT	ATTATCAGGT	GAGAGGAAGC	CTGGGAGCAA
5101	ACACTGCCAG	CAGCATAGCT	GGGGGAACGG	GAATTACCAT	CCTGATCATC	AACCTGAAGA
5161	AGAGCTTGGC	CTATATCCAC	ATCCACAGTT	GCCAGAAATT	TTTTGAGACC	AAGTGCTTTA
5221	TGGCTTCCTT	TTCCACTGTA	TGTATTTTTT	TTTGTGTGGG	AAGACTAAGA	TTCTGGGTCC
5281	TAATGTAAGT	AAGAAGCCCT	CTTCTCCTGT	TCCATGAACA	CCATCCTTTT	CTGTAACTTC
5341	TATTACACAG	TATAGTGGTT	CTGTAAGTTC	ACACAGCCCA	GGGAGATGCT	GGCTGCCCAC
5401	TCCCCTCAAC	CCAGGCAAAT	TCCTCGGGGT	TAAAGTTATC	TACTGCAAGT	GACGATCTCT
	GGGTTTTTCT					
	CTTTAAAAGG					
	ACTTTTGGGG					
	AAATTGTAGT					
	CAATCTGTGG					
	ATCTTGAATG					
	TGAAACATTT					
	ACATTTAAAT					
	GGGTTGGGAT					
	TGGATGTACA					
	GAACTAGCCG					
	ACTTGCTCTA					
	TTGCCTCACC					
	GCCCATGTCT					
	GTCTAGCCAC					
	TCAGCACTTT					
	TGGCCAAATG					
	СТААААААТА					
6541	GCGTGGTGGC	AGGTACCTGA	GGTTCCAGAT	ACTTGGGAGG	CTGAAGCAGG	AGAATCGCTT
6601	GAGCCCAAGA	GATGGAGGTT	GCAGTGAGCC	GAGATCATGC	CACTGCACCA	CAGCCAGGGT
6661	GACAGAGCCA	TACTTCCCAG	CACATTGGGA	GGCCAAAGCT	GAAGAATAAT	TTGAGGTGAG
6721	GATTTGGAGA	CCAGCCTGGC	CAACATGGTG	AAACTCCGTC	TGTACTAAAA	ATATAAAACT
	TAGTGGGGCA					

6841	ATTGCTTGAA	CCCGGGAGGC	GGAAGTTGCA	GTGAGCCAAG	ATCGTGGCCA	CTGCACTCCA
6901	GCCTGGGTGA	CATAGTGAGA	TTCTGTCTCA	AAAAAATAA	AAGAAATTTA	AAAAATCACT
6961	CTCTTCCAAA	GATAGATAAA	TAAGACAGCA	GATATACTAA	GGAATAACCT	CACCAACTTG
7021	TCATTGACTG	ACATGATTTC	TTTTGGCCCA	CTTGGCCAGC	TAGTCTGGTT	TGGTTTTCTG
7081	GAAATGAAAG	AAATAATCAG	AGTTTAATGA	CAGAGAGCGT	GAGACCCAGA	AAGACAAAAG
7141	TAGATGAGGT	AAGTCTCTTG	AGCGAGACTT	CTAGGGATGG	GAAATTTGTG	GTGATTGATA
7201	TGAAATGATT	TTTCCCTTAT	CAGGTTCCAG	AGGATCGTGT	TTATGAAGAA	TTAAACATAT
7261	ATTCAGCTAC	TTACAGTGAG	TTGGAAGACC	CAGGGGAAAT	GTCTCCTCCC	ATTGATTTAT
7321	AAGAATCACG	TGTCCAGAAC	ACTCTGATTC	ACAGCCAAGG	ATCCAGAAGG	CCAAGGTTTT
		TACTGGAAAA				
7441	TTATTCGCCT	GATAAGAATA	TTTTGTTTCT	GCTGCTTCTG	TCCACCTTAA	TATGCTCCTT
7501	CTATTTGTAG	ATATGATAGA	CTCCTATTTT	TCTTGTTTTA	TATTATGACC	ACACACATCT
7561	CTGCTGGAAA	GTCAACATGT	AGTAAGCAAG	ATTTAACTGT	TTGATTATAA	CTGTGCAAAT
7621	ACAGAAAAA	AGAAGGCTGG	CTGAAAGTTG	AGTTAAACTT	TGACAGTTTG	ATAATATTTG
7681	GTTCTTAGGG	TTTTTTTTT	TTTTAGCATT	CTTAATAGTT	ACAGTTGGGC	ATGATTTGTA
7741	CCATCCACCC	ATACCCACAC	AGTCACAGTC	ACACACACAT	ATGTATTACT	TACACTATAT
7801	ATAACTTCCT	ATGCAAATAT	TTTACCACCA	GTCAATAATA	CATTTTTGCC	AAGACATGAA
		GATCTGTATA				
7921	TTGCAGATTG	ACAAGTAGGA	AGTGGGGAAC	TTTTATTAAG	TTACTCGTTG	TCTGGGGAGG
		AAAAACAGGG				
		GTGAAAAAAG				
8101	AAATGGAAAT	AATGGTTATA	TCTAAAACAT	GTAGAAAAAG	AGTAACTGGT	AGATTTTGTT
	the second secon	AGAATAAAGT				
		AAGGAGAACA				
		CTGTAATCCC				
		CCAGCCTGGC				
		GGGTGTGGTG				
		TTGAACCTGG				
		GTGACAATGG				
		AATCTGAAAA				
		GATTTTGGGG				
		GTTCTGGTAA				
		AAATGAAGCA				
		ACTTCACATG				
		ATAATTAGTC				
8941	AAATAGAGAA	AGATTAGATA	AAGAGAAAAT	AAGTATCCAT	CAGAGACAGT	ATCTCTAGGC
9001	TTGGGCAAGA	GAAAAGTCCA	CAGTGATAAG	CAACTCCACC	TAAGGCATGA	ATATGCGGCA
9061	GAGAAAACAG	CAATAGTGAA	TGAATGCAAA	AGGTGCTGAG	CAAATTCCAC	ACATGAGTAT
		TAAATGAATA				
9181	TATGTGCGAA	ATAAGATAGT	TGATTATGAA	TAGAAGGTAG	TGAAGAAAAG	CAAGCTAAGA
9241	AAAAATTCTG	TTTATAAAAG	AAGGAAAAGA	TAGTTTATGT	TTTTAGCCTA	AGTATAAGAG
9301	TCCTACAGAT	GGACTGAAAA	AAATCAGTCT	GAGAGTATTA	GTCACAATTA	ATGAAATAAT
		GTATTGAGGA				
9421	AGATTGTGAA	AGTGATCACG	ACAATCACAC	AACAAATAAT	TAAGTGACTT	GGTATGCTTT
9481	ATTTAATTGT	AGGGCCTGAG	GTTTTCCATT	CTCATTTTTC	TAAAATACAA	TTTTGTTTCT
9541	CCAAATTTGA	CAGCAGAATA	AAAACCCTAC	CCTTTCACTG	TGTATCATGC	TAAGCTGCAT
9601	CTCTACTCTT	GATCATCTGT	AGGTATTAAT	CACATCACTT	CCATGGCATG	GATGTTCACA
		TAACCCTGGT				
9721	CAGTTGTATA	GTATATGATA	TCTCTTTTAT	TTCACTCAAT	TTATATTTTC	ATCATTGACT
		TATACACAAC				
9841	TGCCCCACCC	TACCTGCCTT	TTATAGTACG	CCCACCTCAG	GCAGACACAG	AGCACAATGC
9901	TGGGGTTCTC	TTCACACTAT	CACTGCCCCA	AATTGTCTTT	CTAAATTTCA	ACTTCAATGT
		ATGAAGACCA				
		CTATCCCACG				
		TTCTCAATTA				
		GTTTGTGTTG				
		TAAAATGATG				
		CAAACAGAAC				
		GCACACTCTA				
		TTTTGTCAAT				
		AGTCAGTCCT				
		GAACCTCAGG				

### (2) INFORMATION FOR SEQ ID NO:2506:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1291 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2506:
- 1 CATATGTATG GGAATACTGT ATTTCAGGCA TTATAAGGAA TGAAATTATA GGCCGGGCAT
  61 TGTGGCTAAC CCTTGTAATC CTAGCACTTT GAGAGCTGA AGTGGGCAGA TCACTTGAGC
  121 TTCAGAGTTC GAGACCAGCA TGGACAACAT GGTGAAACCC AGTCTCTACC AAAAACACAA
  181 AAATATTAGC TGGGTGTGGT GGTGCATGCC TGTAGTCCCA GCTACTCAGG AGGCTGAGGT
  241 GGGAGGATCG CTTGAGCCTG GGAGGCAGAA GTTGCAATGA GCAGAGATCG TGCCACTCCG
- 301 CTCCAGTCTT GGTGACAGAA TGAGACTCCA TCTCAAAAAT AAATAAATAA ATAAATAAAA 361 TAAATGAAAT GAAATTATAA GAAATTACCA CTTTTTCATG TAAGAAGTGA TCATTTCCAT
- 421 TATAAGGGAA GGAATTTAAT CCTACCTGCC ATTCCACCAA AGCTTACCTA GTGCTAAAGG
- 481 ATGAGGTGTT AGTAAGACCA ACATCTCAGA GGCCTCTCTG TGCCAATAGC CTTCCTTCCT
- 541 TTCCCTTCCA AAAACCTCAA GTGACTAGTT CAGAGGCCTG TCTGGAATAA TGGCATCATC
- 601 TAATATCACT GGCCTTCTGG AACCTGGGCA TTTTCCAGTG TGTTCCATAC TGTCAATATT
- 661 CCCCCAGCTT CCTGGACTCC TGTCACAAGC TGGAAAAGTG AGAGGATGGA CAGGGATTAA
- 721 CCAGAGAGCT CCCTGCTGAG GAAAAATCT CCCAGATGCT GAAAGTGAGG CCATGTGGCT
- 781 TGGCCAAATA AAACCTGGCT CCGTGGTGCC TCTGTCTTAG CAGCCACCCT GCTGATGAAC
- 961 ACTGTACACA AGCTGGGGAC ACTCCCTTTG GAAACCAAAA AAAAAAAAA AAAAAAGAGA
- 1021 CCTTTATGCA AAAACAACTC TCTGGATGGC ATGGGGTGAG TATAAATACT TCTTGGCTGC
- 1081 CAGTGTGTTC ATAACTTTGT AGCGAGTCGA AAACTGAGGC TCCGGCCGCA GAGAACTCAG
- 1141 CCTCATTCCT GCTTTAAAAT CTCTCGGCCA CCTTTGATGA GGGGACTGGG CAGTTCTAGA 1201 CAGTCCCGAA GTTCTCAAGG CACAGGTCTC TTCCTGGTTT GACTGTCCTT ACCCCGGGGA
- 1261 GGCAGTGCAG CCAGCTGCAA GGTGAGTTGC C

## (2) INFORMATION FOR SEQ ID NO:2507:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4145 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2507:
- 1 CTGCTTTAAA ATCTCTCGGC CACCTTTGAT GAGGGGACTG GGCAGTTCTA GACAGTCCCG
- 61 AAGTTCTCAA GGCACAGGTC TCTTCCTGGT TTGACTGTCC TTACCCCGGG GAGGCAGTGC
- 121 AGCCAGCTGC AAGCCCCACA GTGAAGAACA TCTGAGCTCA AATCCAGATA AGTGACATAA
- 181 GTGACCTGCT TTGTAAAGCC ATAGAGATGG CCTGTCCTTG GAAATTTCTG TTCAAGACCA
- 241 AATTCCACCA GTATGCAATG AATGGGGAAA AAGACATCAA CAACAATGTG GAGAAAGCCC
- 301 CCTGTGCCAC CTCCAGTCCA GTGACACAGG ATGACCTTCA GTATCACAAC CTCAGCAAGC
- 361 AGCAGAATGA GTCCCCGCAG CCCCTCGTGG AGACGGGAAA GAAGTCTCCA GAATCTCTGG
- 421 TCAAGCTGGA TGCAACCCCA TTGTCCTCCC CACGGCATGT GAGGATCAAA AACTGGGGCA
- 481 GCGGGATGAC TTTCCAAGAC ACACTTCACC ATAAGGCCAA AGGGATTTTA ACTTGCAGGT
- 541 CCAAATCTTG CCTGGGGTCC ATTATGACTC CCAAAAGTTT GACCAGAGGA CCCAGGGACA 601 AGCCTACCCC TCCAGATGAG CTTCTACCTC AAGCTATCGA ATTTTGTCAAC CAATATTACG
- 661 GCTCCTTCAA AGAGGCAAAA ATAGAGGAAC ATCTGGCCAG GGTGGAAGCG GTAACAAAGG

		AACAGGAACC				
		CAATGCCCCA				
		CAGCTGTTCC				
		CAACAATGGC				
		CGACTTCCGG				
		CAGCATCAGA				
		GAAGCCCAAG				
1141	ATGGCCGTGA	CCCTGAGCTC	TTCGAAATCC	CACCTGACCT	TGTGCTTGAG	GTGGCCATGG
		ATACGAGTGG				
1261	TGGCCAACAT	GCTGCTTGAG	GTGGGCGGCC	TGGAGTTCCC	AGGGTGCCCC	TTCAATGGCT
1321	GGTACATGGG	CACAGAGATC	GGAGTCCGGG	ACTTCTGTGA	CGTCCAGCGC	TACAACATCC
1381	TGGAGGAAGT	GGGCAGGAGA	ATGGGCCTGG	AAACGCACAA	GCTGGCCTCG	CTCTGGAAAG
1441	ACCAGGCTGT	CGTTGAGATC	AACATTGCTG	TGATCCATAG	TTTTCAGAAG	CAGAATGTGA
		CCACCACTCG				
		GGGCTGCCCG				
1621	TCACCCCCGT	GTTTCACCAG	GAGATĠCTGA	ACTACGTCCT	GTCCCCTTTC	TACTACTATC
1681	AGGTAGAGGC	CTGGAAAACC	CATGTCTGGC	AGGACGAGAA	GCGGAGACCC	AAGAGAAGAG
1741	AGATTCCATT	GAAAGTCTTG	GTCAAAGCTG	TGCTCTTTGC	CTGTATGCTG	ATGCGCAAGA
1801	CAATGGCGTC	CCGAGTCAGA	GTCACCATCC	TCTTTGCGAC	AGAGACAGGA	AAATCAGAGG
1861	CGCTGGCCTG	GGACCTGGGG	GCCTTATTCA	GCTGTGCCTT	CAACCCCAAG	GTTGTCTGCA
1921	TGGATAAGTA	CAGGCTGAGC	TGCCTGGAGG	AGGAACGGCT	GCTGTTGGTG	GTGACCAGTA
1981	CGTTTGGCAA	TGGAGACTGC	CCTGGCAATG	GAGAGAAACT	GAAGAAATCG	CTCTTCATGC
2041	TGAAAGAGCT	CAACAACAAA	TTCAGGTACG	CTGTGTTTGG	CCTCGGCTCC	AGCATGTACC
2101	CTCGGTTCTG	CGCCTTTGCT	CATGACATTG	ATCAGAAGCT	GTCCCACCTG	GGGGCCTCTC
2161	AGCTCACCCC	GATGGGAGAA	GGGGATGAGC	TCAGTGGGCA	GGAGGACGCC	TTCCGCAGCT
2221	GGGCCGTGCA	AACCTTCAAG	GCAGCCTGTG	AGACGTTTGA	TGTCCGAGGC	AAACAGCACA
2281	TTCAGATCCC	CAAGCTCTAC	ACCTCCAATG	TGACCTGGGA	CCCGCACCAC	TACAGGCTCG
2341	TGCAGGACTC	ACAGCCTTTG	GACCTCAGCA	AAGCCCTCAG	CAGCATGCAT	GCCAAGAACG
2401	TGTTCACCAT	GAGGCTCAAA	TCTCGGCAGA	ATCTACAAAG	TCCGACATCC	AGCCGTGCCA
2461	CCATCCTGGT	GGAACTCTCC	TGTGAGGATG	GCCAAGGCCT	GAACTACCTG	CCGGGGGAGC
2521	ACCTTGGGGT	TTGCCCAGGC	AACCAGCCGG	CCCTGGTCCA	AGGCATCCTG	GAGCGAGTGG
2581	TGGATGGCCC	CACACCCCAC	CAGACAGTGC	GCCTGGAGGA	CCTGGATGAG	AGTGGCAGCT
2641	ACTGGGTCAG	TGACAAGAGG	CTGCCCCCCT	GCTCACTCAG	CCAGGCCCTC	ACCTACTCCC
2701	CGGACATCAC	CACACCCCCA	ACCCAGCTGC	TGCTCCAAAA	GCTGGCCCAG	GTGGCCACAG
		GAGACAGAGG				
2821	AGTTCACCAA	CAGCCCCACA	TTCCTGGAGG	TGCTAGAGGA	GTTCCCGTCC	CTGCGGGTGT
2881	CTGCTGGCTT	CCTGCTTTCC	CAGCTCCCCA	TTCTGAAGCC	CAGGTTCTAC	TCCATCAGCT
2941	CCTCCCGGGA	TCACACGCCC	ACGGAGATCC	ACCTGACTGT	GGCCGTGGTC	ACCTACCACA
		CCAGGGTCCC				
3061	AGCCCCAAGA	CCCAGTGCCC	TGCTTTGTGC	GGAATGCCAG	CGCCTTCCAC	CTCCCCGAGG
3121	ATCCCTCCCA	TCCTTGCATC	CTCATCGGGC	CTGGCACAGG	CATCGTGCCC	TTCCGCAGTT
3181	TCTGGCAGCA	ACGGCTCCAT	GACTCCCAGC	ACAAGGGAGT	GCGGGGAGGC	CGCATGACCT
3241	TGGTGTTTGG	GTGCCGCCGC	CCAGATGAGG	ACCACATCTA	CCAGGAGGAG	ATGCTGGAGA
3301	TGGCCCAGAA	GGGGGTGCTG	CATGCGGTGC	ACACAGCCTA	TTCCCGCCTG	CCTGGCAAGC
3361	CCAAGGTCTA	TGTTCAGGAC	ATCCTGCGGC	AGCAGCTGGC	CAGCGAGGTG	CTCCGTGTGC
		GCCAGGCCAC				
		GAAGCAGCTG				
		TCAGCTCAAG				
3601	TTCCTTACGA	GGCGAAGAAG	GACAGGGTGG	CGGTGCAGCC	CAGCAGCCTG	GAGATGTCAG
		GCCTACAGGA				
		ATCTGAGGTC				
		ATTTCCTCAA				
		GGATTGATCG				
3901	AGACAAAATC	TTAAATGCCA	GGCCTGGCGA	GTGGGTGAAA	GATGGAACTT	GCTGCTGAGT
		AAGTGACCAC				
		TTTATGCCTC				
		TCCCTGTATG	ATTCCTTGAT	GGAGATATTT	ACATGAATTG	CATTTTACTT
4141	TAATC					

- (2) INFORMATION FOR SEQ ID NO:2508:
  (i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 4077 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2508:

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3481 CATCGGCGTG CTGCGGGATC AGCAACGCTA CCACGAAGAC ATTTTCGGGC TCACGCTGCG
3541 CACCCAGGAG GTGACAAGCC GCATACGCAC CCAGAGCTTT TCCTTGCAGG AGCGTCAGTT
3601 GCGGGGCGCA GTGCCCTGGG CGTTCGACCC TCCCGGCTCA GACACCAACA GCCCCTGAGA
3661 GCCGCCTGGC TTTCCCTTCC AGTTCCGGGA GAGCGGCTGC CCGACTCAGG TCCGCCCGAC
3721 CAGGATCAGC CCCGCTCCTC CCCTCTTGAG GTGGTGCCTT CTCACATCTG TCCAGAGGCT
3781 GCAAGGATTC AGCATTATTC CTCCAGGAAG GAGCAAAACG CCTCTTTTCC CTCTCTAGGC
3841 CTGTTGCCTC GGGCCTGGGT CCGCCTTAAT CTGGAAGGCC CCTCCCAGCA GCGGTACCCC
3901 AGGGCCTACT GCCACCCGCT TCCTGTTTCT TAGTCCGAAT GTTAGATTCC TCTTGCCTCT
3961 CTCAGGAGTA TCTTACCTGT AAAGTCTAAT CTCTAAATCA AGTATTTATT ATTGAAGATT
4021 TACCATAAGG GACTGTGCCA GATGTTAGGA GAACTACTAA AGTGCCTACC CCAGCTC
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### (2) INFORMATION FOR SEQ ID NO:2509:

- (i) SEOUENCE CHARACTERISTICS:
  - (A) LENGTH: 9513 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2509:
- 1 CATATGTATG GGAATACTGT ATTTCAGGCA TTATAAGGAA TGAAATTATA GGCCGGGCAT 61 TGTGGCTAAC CCTTGTAATC CTAGCACTTT GAGAGGCTGA AGTGGGCAGA TCACTTGAGC 121 TTCAGAGTTC GAGACCAGCA TGGACAACAT GGTGAAACCC AGTCTCTACC AAAAACACAA 181 AAATATTAGC TGGGTGTGGT GGTGCATGCC TGTAGTCCCA GCTACTCAGG AGGCTGAGGT 241 GGGAGGATCG CTTGAGCCTG GGAGGCAGAA GTTGCAATGA GCAGAGATCG TGCCACTCCG 301 CTCCAGTCTT GGTGACAGAA TGAGACTCCA TCTCAAAAAT AAATAAATAA ATAAATAAAA 361 TAAATGAAAT GAAATTATAA GAAATTACCA CTTTTTCATG TAAGAAGTGA TCATTTCCAT 421 TATAAGGGAA GGAATTTAAT CCTACCTGCC ATTCCACCAA AGCTTACCTA GTGCTAAAGG 481 ATGAGGTGTT AGTAAGACCA ACATCTCAGA GGCCTCTCTG TGCCAATAGC CTTCCTTCCT 541 TTCCCTTCCA AAAACCTCAA GTGACTAGTT CAGAGGCCTG TCTGGAATAA TGGCATCATC 601 TAATATCACT GGCCTTCTGG AACCTGGGCA TTTTCCAGTG TGTTCCATAC TGTCAATATT 661 CCCCCAGCTT CCTGGACTCC TGTCACAAGC TGGAAAAGTG AGAGGATGGA CAGGGATTAA 721 CCAGAGAGCT CCCTGCTGAG GAAAAAATCT CCCAGATGCT GAAAGTGAGG CCATGTGGCT 781 TGGCCAAATA AAACCTGGCT CCGTGGTGCC TCTGTCTTAG CAGCCACCCT GCTGATGAAC 901 GATGTAACAG CAAGATCAGG TCACCCACAG GCCCTGGCAG TCACAGTCAT AAATTAGCTA 961 ACTGTACACA AGCTGGGGAC ACTCCCTTTG GAAACCAAAA AAAAAAAAA AAAAAAGAGA 1021 CCTTTATGCA AAAACAACTC TCTGGATGGC ATGGGGTGAG TATAAATACT TCTTGGCTGC 1081 CAGTGTGTTC ATAACTTTGT AGCGAGTCGA AAACTGAGGC TCCGGCCGCA GAGAACTCAG 1141 CCTCATTCCT GCTTTAAAAT CTCTCGGCCA CCTTTGATGA GGGGACTGGG CAGTTCTAGA 1201 CAGTCCCGAA GTTCTCAAGG CACAGGTCTC TTCCTGGTTT GACTGTCCTT ACCCCGGGGA 1261 GGCAGTGCAG CCAGCTGCAA GGTGAGTTGC C 1 CTGCTTTAAA ATCTCTCGGC CACCTTTGAT GAGGGGACTG GGCAGTTCTA GACAGTCCCG 61 AAGTTCTCAA GGCACAGGTC TCTTCCTGGT TTGACTGTCC TTACCCCGGG GAGGCAGTGC 121 AGCCAGCTGC AAGCCCCACA GTGAAGAACA TCTGAGCTCA AATCCAGATA AGTGACATAA 181 GTGACCTGCT TTGTAAAGCC ATAGAGATGG CCTGTCCTTG GAAATTTCTG TTCAAGACCA 241 AATTCCACCA GTATGCAATG AATGGGGAAA AAGACATCAA CAACAATGTG GAGAAAGCCC 301 CCTGTGCCAC CTCCAGTCCA GTGACACAGG ATGACCTTCA GTATCACAAC CTCAGCAAGC 361 AGCAGAATGA GTCCCCGCAG CCCCTCGTGG AGACGGGAAA GAAGTCTCCA GAATCTCTGG 421 TCAAGCTGGA TGCAACCCCA TTGTCCTCCC CACGGCATGT GAGGATCAAA AACTGGGGCA 481 GCGGGATGAC TTTCCAAGAC ACACTTCACC ATAAGGCCAA AGGGATTTTA ACTTGCAGGT 541 CCAAATCTTG CCTGGGGTCC ATTATGACTC CCAAAAGTTT GACCAGAGGA CCCAGGGACA 601 AGCCTACCCC TCCAGATGAG CTTCTACCTC AAGCTATCGA ATTTGTCAAC CAATATTACG 661 GCTCCTTCAA AGAGGCAAAA ATAGAGGAAC ATCTGGCCAG GGTGGAAGCG GTAACAAAGG 721 AGATAGAAAC AACAGGAACC TACCAACTGA CGGGAGATGA GCTCATCTTC GCCACCAAGC 781 AGGCCTGGCG CAATGCCCCA CGCTGCATTG GGAGGATCCA GTGGTCCAAC CTGCAGGTCT 841 TCGATGCCCG CAGCTGTTCC ACTGCCCGGG AAATGTTTGA ACACATCTGC AGACACGTGC 901 GTTACTCCAC CAACAATGGC AACATCAGGT CGGCCATCAC CGTGTTCCCC CAGCGGAGTG 961 ATGGCAAGCA CGACTTCCGG GTGTGGAATG CTCAGCTCAT CCGCTATGCT GGCTACCAGA 1021 TGCCAGATGG CAGCATCAGA GGGGACCCTG CCAACGTGGA ATTCACTCAG CTGTGCATCG 1081 ACCTGGGCTG GAAGCCCAAG TACGGCCGCT TCGATGTGGT CCCCCTGGTC CTGCAGGCCA 1141 ATGGCCGTGA CCCTGAGCTC TTCGAAATCC CACCTGACCT TGTGCTTGAG GTGGCCATGG 1201 AACATCCCAA ATACGAGTGG TTTCGGGAAC TGGAGCTAAA GTGGTACGCC CTGCCTGCAG 1261 TGGCCAACAT GCTGCTTGAG GTGGGCGGCC TGGAGTTCCC AGGGTGCCCC TTCAATGGCT

	GGTACATGGG					
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	GGTCCCGTGG					
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	TGGATGGCCC					
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	CGGACATCAC					
	AAGAGCCTGA					
	AGTTCACCAA					
	CTGCTGGCTT					
	CCTCCCGGGA					
	CCGGAGATGG					
	AGCCCCAAGA					
	ATCCCTCCCA					
	TCTGGCAGCA					
	TGGTGTTTGG					
	TGGCCCAGAA					
	CCAAGGTCTA					
	TCCACAAGGA					
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	TTCCTTACGA					
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	TAATC					
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	GAGCGTGGCC					
	GTGCGGCAAG					
	ACTCCCACCA					
	GCCCAAGTTC					
	CGCCCAGGCG					
	TCCACGGAAA					
	TCAGGCCCGG					
	CCACGAACAG					
	TAGGGAGAGC					
	GGGCCGGATC					
	GGAAATGTTC					
	CTCGGCCATC					
781	CAGCCAGCTG	GTGCGCTACG	CGGGCTACCG	GCAGCAGGAC	GGCTCTGTGC	GGGGGGACCC

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841 AGCCAACGTG GAGATCACCG AGCTCTGCAT TCAGCACGGC TGGACCCCAG GAAACGGTCG
 901 CTTCGACGTG CTGCCCCTGC TGCTGCAGGC CCCAGATGAG CCCCCAGAAC TCTTCCTTCT
961 GCCCCCGAG CTGGTCCTTG AGGTGCCCCT GGAGCACCCC ACGCTGGAGT GGTTTGCAGC
1021 CCTGGGCCTG CGCTGGTACG CCCTCCCGGC AGTGTCCAAC ATGCTGCTGG AAATTGGGGG
1081 CCTGGAGTTC CCCGCAGCCC CCTTCAGTGG CTGGTACATG AGCACTGAGA TCGGCACGAG
1141 GAACCTGTGT GACCCTCACC GCTACAACAT CCTGGAGGAT GTGGCTGTCT GCATGGACCT
1201 GGATACCCGG ACCACCTCGT CCCTGTGGAA AGACAAGGCA GCAGTGGAAA TCAACGTGGC
1261 CGTGCTGCAC AGTTACCAGC TAGCCAAAGT CACCATCGTG GACCACCACG CCGCCACGGC
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1741 GCTGGTGCTG GTGGTAACCA GCACATTTGG GAATGGGGAT CCCCCGGAGA ATGGAGAGAG
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1861 GCACAAGAGT TATAAGATCC GCTTCAACAG CATCTCCTGC TCAGACCCAC TGGTGTCCTC
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2641 CACCTCCCCA CCCAGCCCTC AGCTCTTGCG GCTGCTCAGC ACCTTGGCAG AAGAGCCCAG
2701 GGAACAGCAG GAGCTGGAGG CCCTCAGCCA GGATCCCCGA CGCTACGAGG AGTGGAAGTG
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2821 CCCACTGCTC CTCACCCAGC TGCCTCTGCT CCAGCCCCGG TACTACTCAG TCAGCTCGGC
2881 ACCCAGCACC CACCCAGGAG AGATCCACCT CACTGTAGCT GTGCTGGCAT ACAGGACTCA
2941 GGATGGGCTG GGCCCCCTGC ACTATGGAGT CTGCTCCACG TGGCTAAGCC AGCTCAAGCC
3001 CGGAGACCCT GTGCCCTGCT TCATCCGGGG GGCTCCCTCC TTCCGGCTGC CACCCGATCC
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3721 CAGGATCAGC CCCGCTCCTC CCCTCTTGAG GTGGTGCCTT CTCACATCTG TCCAGAGGCT
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3841 CTGTTGCCTC GGGCCTGGGT CCGCCTTAAT CTGGAAGGCC CCTCCCAGCA GCGGTACCCC
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- (2) INFORMATION FOR SEQ ID NO: 2510:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 11970 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2510:

1 AAGCTTCTAC CCTAGTCTGG TGCTACACTT ACATTGCTTA CATCCAAGTG TGGTTATTTC 61 TGTGGCTCCT GTTATAACTA TTATAGCACC AGGTCTATGA CCAGGAGAAT TAGACTGGCA 121 TTAAATCAGA ATAAGAGATT TTGCACCTGC AATAGACCTT ATGACACCTA ACCAACCCCA 181 TTATTTACAA TTAAACAGGA ACAGAGGGAA TACTTTATCC AACTCACACA AGCTGTTTTC 241 CTCCCAGATC CATGCTTTTT TGCGTTTATT ATTTTTTAGA GATGGGGGCT TCACTATGTT 301 GCCCACACTG GACTAAAACT CTGGGCCTCA AGTGATTGTC CTGCCTCAGC CTCCTGAATA 361 GCTGGGACTA CAGGGGCATG CCATCACACC TAGTTCATTT CCTCTATTTA AAATATACAT 421 GGCTTAAACT CCAACTGGGA ACCCAAAACA TTCATTTGCT AAGAGTCTGG TGTTCTACCA 481 CCTGAACTAG GCTGGCCACA GGAATTATAA AAGCTGAGAA ATTCTTTAAT AATAGTAACC 541 AGGCAACATC ATTGAAGGCT CATATGTAAA AATCCATGCC TTCCTTTCTC CCAATCTCCA 601 TTCCCAAACT TAGCCACTGG TTCTGGCTGA GGCCTTACGC ATACCTCCCG GGGCTTGCAC 661 ACACCTTCTT CTACAGAAGA CACACCTTGG GCATATCCTA CAGAAGACCA GGCTTCTCTC 721 TGGTCCTTGG TAGAGGGCTA CTTTACTGTA ACAGGGCCAG GGTGGAGAGT TCTCTCCTGA 781 AGCTCCATCC CCTCTATAGG AAATGTGTTG ACAATATTCA GAAGAGTAAG AGGATCAAGA 841 CTTCTTTGTG CTCAAATACC ACTGTTCTCT TCTCTACCCT GCCCTAACCA GGAGCTTGTC 901 ACCCCAAACT CTGAGGTGAT TTATGCCTTA ATCAAGCAAA CTTCCCTCTT CAGAAAAGAT 961 GGCTCATTTT CCCTCAAAAG TTGCCAGGAG CTGCCAAGTA TTCTGCCAAT TCACCCTGGA 1021 GCACAATCAA CAAATTCAGC CAGAACACAA CTACAGCTAC TATTAGAACT ATTATTATTA 1081 ATAAATTCCT CTCCAAATCT AGCCCCTTGA CTTCGGATTT CACGATTTCT CCCTTCCTCC 1141 TAGAAACTTG ATAAGTTTCC CGCGCTTCCC TTTTTCTAAG ACTACATGTT TGTCATCTTA 1201 TAAAGCAAAG GGGTGAATAA ATGAACCAAA TCAATAACTT CTGGAATATC TGCAAACAAC 1261 AATAATATCA GCTATGCCAT CTTTCACTAT TTTAGCCAGT ATCGAGTTGA ATGAACATAG 1321 AAAAATACAA AACTGAATTC TTCCCTGTAA ATTCCCCGTT TTGACGACGC ACTTGTAGCC 1381 ACGTAGCCAC GCCTACTTAA GACAATTACA AAAGGCGAAG AAGACTGACT CAGGCTTAAG 1441 CTGCCAGCCA GAGAGGGAGT CATTTCATTG GCGTTTGAGT CAGCAAAGGT ATTGTCCTCA 1501 CATCTCTGGC TATTAAAGTA TTTTCTGTTG TTGTTTTTCT CTTTGGCTGT TTTCTCTCAC 1621 GTGACCTAGA ATTACAGTCA GATTTCAGAA AATGATTCTC TCATTTTGCT GATAAGGACT 1681 GATTCGTTTT ACTGAGGGAC GGCAGAACTA GTTTCCTATG AGGGCATGGG TGAATACAAC 1741 TGAGGCTTCT CATGGGAGGG AATCTCTACT ATCCAAAATT ATTAGGAGAA AATTGAAAAT 1801 TTCCAACTCT GTCTCTCTT TACCTCTGTG TAAGGCAAAT ACCTTATTCT TGTGGTGTTT 1861 TTGTAACCTC TTCAAACTTT CATTGATTGA ATGCCTGTTC TGGCAATACA TTAGGTTGGG 1921 CACATAAGGA ATACCAACAT AAATAAAACA TTCTAAAAGA AGTTTACGAT CTAATAAAGG 1981 AGACAGGTAC ATAGCAAACT AATTCAAAGG AGCTAGAAGA TGGAGAAAAT GCTGAATGTG 2041 GACTAAGTCA TTCAACAAG TTTTCAGGAA GCACAAAGAG GAGGGGCTCC CCTCACAGAT 2101 ATCTGGATTA GAGGCTGGCT GAGCTGATGG TGGCTGGTGT TCTCTGTTGC AGAAGTCAAG 2161 ATGGCCAAAG TTCCAGACAT GTTTGAAGAC CTGAAGAACT GTTACAGGTA AGGAATAAGA 2221 TTTATCTCTT GTGATTTAAT GAGGGTTTCA AGGCTCACCA GAATCCAGCT AGGCATAACA 2281 GTGGCCAGCA TGGGGGCAGG CCGGCAGAGG TTGTAGAGAT GTGTACTAGT CCTGAAGTCA 2341 GAGCAGGTTC AGAGAAGACC CAGAAAAACT AAGCATTCAG CATGTTAAAC TGAGATTACA 2401 TTGGCAGGGA GACCGCCATT TTAGAAAAAT TATTTTTGAG GTCTGCTGAG CCCTACATGA 2461 ATATCAGCAT CAACTTAGAC ACAGCCTCTG TTGAGATCAC ATGCCCTGAT ATAAGAATGG 2521 GTTTTACTGG TCCATTCTCA GGAAAACTTG ATCTCATTCA GGAACAGGAA ATGGCTCCAC 2581 AGCAAGCTGG GCATGTGAAC TCACATATGC AGGCAAATCT CACTCAGATG TAGAAGAAAG 2641 GTAAATGAAC ACAAAGATAA AATTACGGAA CATATTAAAC TAACATGATG TTTCCATTAT 2701 CTGTAGTAAA TACTAACACA AACTAGGCTG TCAAAATTTT GCCTGGATAT TTTACTAAGT 2761 ATAAATTATG AAATCTGTTT TAGTGAATAC ATGAAAGTAA TGTGTAACAT ATAATCTATT 2821 TGGTTAAAAT AAAAAGGAAG TGCTTCAAAA CCTTTCTTTT CTCTAAAGGA GCTTAACATT 2881 CTTCCCTGAA CTTCAATTAA AGCTCTTCAA TTTGTTAGCC AAGTCCAATT TTTACAGATA 2941 AAGCACAGGT AAAGCTCAAA GCCTGTCTTG ATGACTACTA ATTCCAGATT AGTAAGATAT 3001 GAATTACTCT ACCTATGTGT ATGTGTAGAA GTCCTTAAAT TTCAAAGATG ACAGTAATGG 3061 CCATGTGTAT GTGTGTGACC CACAACTATC ATGGTCATTA AAGTACATTG GCCAGAGACC 3121 ACATGAAATA ACAACAATTA CATTCTCATC ATCTTATTTT GACAGTGAAA ATGAAGAAGA 3181 CAGTTCCTCC ATTGATCATC TGTCTCTGAA TCAGGTAAGC AAATGACTGT AATTCTCATG 3241 GGACTGCTAT TCTTACACAG TGGTTTCTTC ATCCAAAGAG AACAGCAATG ACTTGAATCT 3301 TAAATACTTT TGTTTTACCC TCACTAGAGA TCCAGAGACC TGTCTTTCAT TATAAGTGAG 3361 ACCAGCTGCC TCTCTAAACT AATAGTTGAT GTGCATTGGC TTCTCCCAGA ACAGAGCAGA 3421 ACTATCCCAA ATCCCTGAGA ACTGGAGTCT CCTGGGGCAG GCTTCATCAG GATGTTAGTT 3481 ATGCCATCCT GAGAAAGCCC CGCAGGCCGC TTCACCAGGT GTCTGTCTCC TAACGTGATG 3541 TGTTGTGGTT GTCTTCTG ACACCAGCAT CAGAGGTTAG AGAAAGTCTC CAAACATGAA 3601 GCTGAGAGAG AGGAAGCAAG CCAGCTGAAA GTGAGAAGTC TACAGCCACT CATCAATCTG 3661 TGTTATTGTG TTTGGAGACC ACAAATAGAC ACTATAAGTA CTGCCTAGTA TGTCTTCAGT

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8221	TTTACTGACA	TCTATTATCT	GACCTACACA	ATACTAGACA	TTAGGACAAT	GTGGCCTGCC
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8581	TGCTTTTCTA	CCTGGATCAA	GTGATGTCTA	CAGAGTAGGG	CAGTAGCTTC	ATTCATGAAC
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9001	GAGGAGGGG	CGGGTCGTGG	TTGTGGGTTT	TTGGGTAGGA	CATTCAGAGG	AGGGGGCGGG
9061	TCGTGGTTGT	GGGTTTTTGG	GTAGGACATT	CAGAGGAGGG	GGCGGGTCGT	GGTTGTGGGT
9121	TTTTGGGACA	TTCAGAGGAG	TCTGAATGCA	CCCAGGCCTA	CAACTTCAAG	ATGGTAAAGG
9181	ACAGCTCCAA	GGATCAGAAG	AAGCATTCTT	GGAACTGGGG	CATTTTGAGA	AGGAGGAAAA
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11761 TTATATTTTT TTCTCCTCTT TGTTAGCTGC CAGTATGCAT AAATGGCCAT AAGAATGATA
11821 ATATTCCGG GTTCACTTAA AGCTCATATT ACACATACAC AAAACATGTG TTCCCATCTT
11881 TATACAAACT CACACATACA GAGCTACATT AAAAACAACT AATAGGCCAG GCACGGTGGC
11941 TCAGACCTGT AATCCCAGCA CTTTGGGAGG
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### (2) INFORMATION FOR SEQ ID NO:2511:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1497 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2511:
- 1 ACCAACCTCT TCGAGGCACA AGGCACACA GGCTGCTCTG GGATTCTCTT CAGCCAATCT 61 TCATTGCTCA AGTGTCTGAA GCAGCCATGG CAGAAGTACC TGAGCTCGCC AGTGAAATGA 121 TGGCTTATTA CAGTGGCAAT GAGGATGACT TGTTCTTTGA AGCTGATGGC CCTAAACAGA 181 TGAAGTGCTC CTTCCAGGAC CTGGACCTCT GCCCTCTGGA TGGCGGCATC CAGCTACGAA 241 TCTCCGACCA CCACTACAGC AAGGGCTTCA GGCAGGCCGC GTCAGTTGTT GTGGCCATGG 301 ACAAGCTGAG GAAGATGCTG GTTCCCTGCC CACAGACCTT CCAGGAGAAT GACCTGAGCA 361 CCTTCTTTCC CTTCATCTTT GAAGAAGAAC CTATCTTCTT CGACACATGG GATAACGAGG 421 CTTATGTGCA CGATGCACCT GTACGATCAC TGAACTGCAC GCTCCGGGAC TCACAGCAAA 481 AAAGCTTGGT GATGTCTGGT CCATATGAAC TGAAAGCTCT CCACCTCCAG GGACAGGATA 541 TGGAGCAACA AGTGGTGTTC TCCATGTCCT TTGTACAAGG AGAAGAAAGT AATGACAAAA 601 TACCTGTGGC CTTGGGCCTC AAGGAAAGA ATCTGTACCT GTCCTGCGTG TTGAAAGATG 661 ATAAGCCCAC TCTACAGCTG GAGAGTGTAG ATCCCAAAAA TTACCCAAAG AAGAAGATGG 721 AAAAGCGATT TGTCTTCAAC AAGATAGAAA TCAATAACAA GCTGGAATTT GAGTCTGCCC 781 AGTTCCCCAA CTGGTACATC AGCACCTCTC AAGCAGAAAA CATGCCCGTC TTCCTGGGAG 841 GGACCAAAGG CGGCCAGGAT ATAACTGACT TCACCATGCA ATTTGTGTCT TCCTAAAGAG 901 AGCTGTACCC AGAGAGTCCT GTGCTGAATG TGGACTCAAT CCCTAGGGCT GGCAGAAAGG 961 GAACAGAAAG GTTTTTGAGT ACGGCTATAG CCTGGACTTT CCTGTTGTCT ACACCAATGC 1021 CCAACTGCCT GCCTTAGGGT AGTGCTAAGA GGATCTCCTG TCCATCAGCC AGGACAGTCA 1081 GCTCTCTCT TTCAGGGCCA ATCCCCAGCC CTTTTGTTGA GCCAGGCCTC TCTCACCTCT 1141 CCTACTCACT TAAAGCCCGC CTGACAGAAA CCACGGCCAC ATTTGGTTCT AAGAAACCCT 1201 CTGTCATTCG CTCCCACATT CTGATGAGCA ACCGCTTCCC TATTTATTTA TTTATTTGTT

### (2) INFORMATION FOR SEQ ID NO:2512:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 9721 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2512:
- 1 AGAAAGAAAG AGAGAGAGAA AGAAAAGAAA GAGGAAGGAA GGAAGGAAGG AAGAAAGACA
  61 GGCTCTGAGG AAGGTGGCAG TTCCTACAAC GGGAGAACCA GTGGTTAATT TGCAAAGTGG
- 121 ATCCTGTGGA GGCANNCAGA GGAGTCCCCT AGGCCACCCA GACAGGGCTT TTAGCTATCT
- 181 GCAGGCCAGA CACCAAATTT CAGGAGGGCT CAGTGTTAGG AATGGATTAT GGCTTATCAA
- 241 ATTCACAGGA AACTAACATG TTGAACAGCT TTTAGATTTC CTGTGGAAAA TATAACTTAC
- 301 TAAAGATGGA GTTCTTGTGA CTGACTCCTG ATATCAAGAT ACTGGGAGCC AAATTAAAAA
- 361 TCAGAAGGCT GCTTGGAGAG CAAGTCCATG AAATGCTCTT TTTCCCACAG TAGAACCTAT
  421 TTCCCTCGTG TCTCAAATAC TTGCACAGAG GCTCACTCCC TTGGATAATG CAGAGCGAGC

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2221	AACAGCTGAC	ACCCTAAAGG	TTAGTGTCAA	AGCCTCTGCT	CCAGCTCTCC	TAGCCAATAC
2281	ATTGCTAGTT	GGGGTTTGGT	TTAGCAAATG	CTTTTCTCTA	GACCCAAAGG	ACTTCTCTTT
2341	CACACATTCA	TTCATTTACT	CAGAGATCAT	TTCTTTGCAT	GACTGCCATG	CACTGGATGC
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8281 GAGGGACCAA AGGCGGCCAG GATATAACTG ACTTCACCAT GCAATTTGTG TCTTCCTAAA
8341 GAGAGCTGTA CCCAGAGAGT CCTGTGCTGA ATGTGGACTC AATCCCTAGG GCTGGCAGAA
8401 AGGGAACAGA AAGGTTTTTG AGTACGGCTA TAGCCTGGAC TTTCCTGTTG TCTACACCAA
8461 TGCCCAACTG CCTGCCTTAG GGTAGTGCTA AGAGGATCTC CTGTCCATCA GCCAGGACAG
8521 TCAGCTCTCT CCTTTCAGGG CCAATCCCCA GCCCTTTTGT TGAGCCAGGC CTCTCTCACC
8581 TCTCCTACTC ACTTAAAGCC CGCCTGACAG AAACCACGGC CACATTTGGT TCTAAGAAAC
8641 CCTCTGTCAT TCGCTCCCAC ATTCTGATGA GCAACCGCTT CCCTATTTAT TTATTTATTT
8701 GTTTGTTTGT TTTGATTCAT TGGTCTAATT TATTCAAAGG GGGCAAGAAG TAGCAGTGTC
8761 TGTAAAAGAG CCTAGTTTTT AATAGCTATG GAATCAATTC AATTTGGACT GGTGTGCTCT
8821 CTTTAAATCA AGTCCTTTAA TTAAGACTGA AAATATATAA GCTCAGATTA TTTAAATGGG
8881 AATATTTATA AATGAGCAAA TATCATACTG TTCAATGGTT CTGAAATAAA CTTCACTGAA
8941 GAAAAAAAA AAAGGGTCTC TCCTGATCAT TGACTGTCTG GATTGACACT GACAGTAAGC
9001 AAACAGGCTG TGAGAGTTCT TGGGACTAAG CCCACTCCTC ATTGCTGAGT GCTGCAAGTA
9061 CCTAGAAATA TCCTTGGCCA CCGAAGACTA TCCTCCTCAC CCATCCCCTT TATTTCGTTG
9121 TTCAACAGAA GGATATTCAG TGCACATCTG GAACAGGATC AGCTGAAGCA CTGCAGGGAG
9181 TCAGGACTGG TAGTAACAGC TACCATGATT TATCTATCAA TGCACCAAAC ATCTGTTGAG
9241 CAAGCGCTAT GTACTAGGAG CTGGGAGTAC AGAGATGAGA ACAGTCACAA GTCCCTCCTC
9301 AGATAGGAGA GGCAGCTAGT TATAAGCAGA ACAAGGTAAC ATGACAAGTA GAGTAAGATA
9361 GAAGAACGAA GAGGAGTAGC CAGGAAGGAG GGAGGAGAAC GACATAAGAA TCAAGCCTAA
9421 AGGGATAAAC AGAAGATTTC CACACATGGG CTGGGCCAAT TGGGTGTCGG TTACGCCTGT
9481 AATCCCAGCA CTTTGGGTGG CAGGGGCAGA AAGATCGCTT GAGCCCAGGA GTTCAAGACC
9541 AGCCTGGGCA ACATAGTGAG ACTCCCATCT CTACAAAAAA TAAATAAATA AATAAAACAA
9601 TCAGCCAGGC ATGCTGGCAT GCACCTGTAG TCCTAGCTAC TTGGGAAGCT GACACTGGAG
9661 GATTGCTTGA GCCCAGAAGT TCAAGACTGC AGTGAGCTTA TCCGTTGACC TGCAGGTCGA
9721 C
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- (2) INFORMATION FOR SEQ ID NO:2513:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1496 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2513:
- 1 ACAAACCTTT TCGAGGCAAA AGGCAAAAAA GGCTGCTCTG GGATTCTCTT CAGCCAATCT 61 TCAATGCTCA AGTGTCTGAA GCAGCCATGG CAGAAGTACC TAAGCTCGCC AGTGAAATGA 121 TGGCTTATTA CAGTGGCAAT GAGGATGACT TGTTCTTTGA AGCTGATGGC CCTAAACAGA 181 TGAAGTGCTC CTTCCAGGAC CTGGACCTCT GCCCTCTGGA TGGCGGCATC CAGCTACGAA 241 TCTCCGACCA CCACTACAGC AAGGGCTTCA GGCAGGCCGC GTCAGTTGTT GTGGCCATGG 301 ACAAGCTGAG GAAGATGCTG GTTCCCTGCC CACAGACCTT CCAGGAGAAT GACCTGAGCA 361 CCTTCTTTCC CTTCATCTTT GAAGAAGAAC CTATCTTCTT CGACACATGG GATAACGAGG 421 CTTATGTGCA CGATGCACCT GTACGATCAC TGAACTGCAC GCTCCGGGAC TCACAGCAAA 481 AAAGCTTGGT GATGTCTGGT CCATATGAAC TGAAAGCTCT CCACCTCCAG GGACAGGATA 541 TGGAGCAACA AGTGGTGTTC TCCATGTCCT TTGTACAAGG AGAAGAAAGT AATGACAAAA 601 TACCTGTGGC CTTGGGCCTC AAGGAAAAGA ATCTGTACCT GTCCTGCGTG TTGAAAGATG 661 ATAAGCCCAC TCTACAGCTG GAGAGTGTAG ATCCCAAAAA TTACCCAAAG AAGAAGATGG 721 AAAAGCGATT TGTCTTCAAC AAGATAGAAA TCAATAACAA GCTGGAATTT GAGTCTGCCC 781 AGTTCCCCAA CTGGTACATC AGCACCTCTC AAGCAGAAAA CATGCCCGTC TTCCTGGGAG 841 GGACCAAAGG CGGCCAGGAT ATAACTGACT TCACCATGCA ATTTGTGTCT TCCTAAAGAG 901 AGCTGTACCC AGAGAGTCCT GTGCTGAATG TGGACTCAAT CCCTAGGGCT GGCAGAAAGG 961 GAACAGAAAG GTTTTTGAGT ACGGCTATAG CCTGGACTTT CCTGTTGTCT ACACCAATGC 1021 CCAACTGCCT GCCTTAGGGT AGTGCTAAGA GGATCTCCTG TCCATCAGCC AGGACAGTCA 1081 GCTCTCCCT TTCAGGGCCA ATCCCAGCCC TTTTGTTGAG CCAGGCCTCT CTCACCTCTC 1141 CTACTCACTT AAAGCCCGCC TGACAGAAAC CAGGCCACAT TTTGGTTCTA AGAAACCCTC 1201 CTCTGTCATT CGCTCCCACA TTCTGATGAG CAACCGCTTC CCTATTTATT TATTTATTTG 1261 TTTGTTTGTT TTGATTCATT GGTCTAATTT ATTCAAAGGG GGCAAGAAGT AGCAGTGTCT 1321 GTAAAAGAGC CTAGTTTTTA ATAGCTATGG AATCAATTCA ATTTGGACTG GTGTGCTCTC

1381 TTTAAATCAA GTCCTTTAAT TAAGACTGAA AATATATAAG CTCAGATTAT TTAAATGGGA 1441 ATATTTATAA ATGAGCAAAT ATCATACTGT TCAATGGTTC TCAAATAAAC TTCACT

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(2) INFORMATION FOR SEQ ID NO:2514:
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- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 720 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2514:
- 1 CTGGCAGGAG TAGCAGCTGC CCCTTGGCGC GACTGCTGGA GCCGCGAACT AGAGAAACAC
- 61 AGACACGCCT CATAGAGCAA CGGCGTCTCT CGGAGCGTGG AGCCCGCCAA GCTCGAGCTG
- 121 AGCTTTCGCT TGCCGTCCAC CACTGCCCAC ACTGTCGTTT GCTGCCATCG CAGACCTGCT
- 181 GCTGACTTCC ATCCCTCTGG ATCCGGCAAG GGCCTGCGAT TTTGACAATG TCAAGATTTA
- 241 CCGTATATCC CTGTTTGTTT GGATACACCA GTGACGTCCA CTTCTAGAAG ACAAAGTTAT 301 ATTACTTAAA CAACCAAAGA TATGAAACTA TCCATGAAGA ACAATATTAT CAATACACAG
- 361 CAGTCTTTTG TAACCATGCC CAATGTGATT GTACCAGATA TTGAAAAGGA AATACGAAGG
- 421 ATGGAAAATG GAGCATGCAG CTCCTTTTCT GAGGATGATG ACAGTGCCTC TACATCTGAA
- 481 GAATCAGAGA ATGAAAACCC TCATGCAAGG GGTTCCTTTA GTTATAAGTC ACTCAGAAAG
- 541 GGAGGACCAT CACAGAGGGA GCAGTACCTG CCTGGTGCCA TTGCCATTTT TAATGTGAAC
- 601 AACAGCGACA ATAAGGACCA GGAACCAGAA GAAAAAAAGA AAAAGAAAAA AGAAAAGAAGA
- 661 AGCAAGTCAG ATGATAAAAA CGAAAATAAA AACGACCCAA AGAAGAAGAT GGAAAAGCGA
- (2) INFORMATION FOR SEQ ID NO:2515:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2002 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2515:

# 1 atggccaaag ttccagacat gtttgaagac ctgaagaact gttacagtga aaatgaagaa

61 gacagttect ceattgatea tetgtetetg aateagaaat eettetatea tgtaagetat 121 ggcccactcc atgaaggctg catggatcaa tctgtgtctc tgagtatctc tgaaacctct 181 aaaacatcca agcttacctt caaggagagc atggtggtag tagcaaccaa cgggaaggtt 241 ctgaagaaga gacggttgag tttaagccaa tccatcactg atgatgacct ggaggccatc 301 gccaatgact cagaggaaga aatcatcaag cctaggtcag caccttttag cttcctgagc 361 aatgtgaaat acaactttat gaggatcatc aaatacgaat tcatcctgaa tgacgccctc 421 aatcaaagta taattcgagc caatgatcag tacctcacgg ctgctgcatt acataatctg 481 gatgaagcag tgaaatttga catgggtgct tataagtcat caaaggatga tgctaaaatt 541 accgtgattc taagaatctc aaaaactcaa ttgtatgtga ctgcccaaga tgaagaccaa 601 ccagtgctgc tgaaggagat gcctgagata cccaaaacca tcacaggtag tgagaccaac 661 ctcctcttct tctgggaaac tcacggcact aagaactatt tcacatcagt tgcccatcca 721 aacttgttta ttgccacaaa gcaagactac tgggtgtgct tggcaggggg gccaccctct 781 atcactgact ttcagatact ggaaaaccag gcgtaggtct ggagtctcac ttgtctcact 841 tgtgcagtgt tgacagttca tatgtaccat gtacatgaag aagctaaatc ctttactgtt 901 agtcatttgc tgagcatgta ctgagccttg taattctaaa tgaatgttta cactctttgt 961 aagagtggaa ccaacactaa catataatgt tgttatttaa agaacaccct atattttgca 1021 tagtaccaat cattttaatt attattcttc ataacaattt taggaggacc agagctactg 1081 actatggcta ccaaaaagac tctacccata ttacagatgg gcaaattaag gcataagaaa 1141 actaagaaat atgcacaata gcagttgaaa caagaagcca cagacctagg atttcatgat 1201 ttcatttcaa ctgtttgcct tctgctttta agttgctgat gaactcttaa tcaaatagca 1261 taagtttctg ggacctcagt tttatcattt tcaaaatgga gggaataata cctaagcctt 1321 cctgccgcaa cagtttttta tgctaatcag ggaggtcatt ttggtaaaat acttctcgaa 1381 gccgagcctc aagatgaagg caaagcacga aatgttattt tttaattatt atttatatat 1441 gtatttataa atatattaa gataattata atatactata tttatgggaa ccccttcatc 1501 ctctgagtgt gaccaggcat cctccacaat agcagacagt gttttctggg ataagtaagt 1561 ttgatttcat taatacaggg cattttggtc caagttgtgc ttatcccata gccaggaaac 1621 tctgcattct agtacttggg agacctgtaa tcatataata aatgtacatt aattaccttg 1681 agccagtaat tggtccgatc tttgactctt ttgccattaa acttacctgg gcattcttgt 1741 ttcattcaat tccacctgca atcaagtcct acaagctaaa attagatgaa ctcaactttg 1801 acaaccatag accactgtta tcaaaacttt cttttctgga atgtaatcaa tgtttcttct 1861 aggttctaaa aattgtgatc agaccataat gttacattat tatcaacaat agtgattgat

1921 agagtgttat cagtcataac taaataaagc ttgcaagtga gggagtcatt tcattggcgt

### 1981 ttgagtcagc aaagaagtca ag

- (2) INFORMATION FOR SEQ ID NO:2516:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2027 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2516:
  - 1 AGCTGCCAGC CAGAGAGGGA GTCATTTCAT TGGCGTTTGA GTCAGCAAAG AAGTCAAGAT
  - 61 GGCCAAAGTT CCAGACATGT TTGAAGACCT GAAGAACTGT TACAGTGAAA ATGAAGAAGA
  - 121 CAGTTCCTCC ATTGATCATC TGTCTCTGAA TCAGAAATCC TTCTATCATG TAAGCTATGG
  - 181 CCCACTCCAT GAAGGCTGCA TGGATCAATC TGTGTCTCTG AGTATCTCTG AAACCTCTAA
  - 241 AACATCCAAG CTTACCTTCA AGGAGAGCAT GGTGGTAGTA GCAACCAACG GGAAGGTTCT 301 GAAGAAGAGA CGGTTGAGTT TAAGCCAATC CATCACTGAT GATGACCTGG AGGCCATCGC
  - 361 CAATGACTCA GAGGAAGAAA TCATCAAGCC TAGGTCATCA CCTTTTAGCT TCCTGAGCAA
  - 421 TGTGAAATAC AACTTTATGA GGATCATCAA ATACGAATTC ATCCTGAATG ACGCCCTCAA
  - 481 TCAAAGTATA ATTCGAGCCA ATGATCAGTA CCTCACGGCT GCTGCATTAC ATAATCTGGA
  - 541 TGAAGCAGTG AAATTTGACA TGGGTGCTTA TAAGTCATCA AAGGATGATG CTAAAATTAC
  - 601 CGTGATTCTA AGAATCTCAA AAACTCAATT GTATGTGACT GCCCAAGATG AAGACCAACC
  - 661 AGTGCTGCTG AAGGAGATGC CTGAGATACC CAAAACCATC ACAGGTAGTG AGACCAACCT
  - 721 CCTCTTCTTC TGGGAAACTC ACGGCACTAA GAACTATTTC ACATCAGTTG CCCATCCAAA
  - 781 CTTGTTTATT GCCACAAAGC AAGACTACTG GGTGTGCTTG GCAGGGGGGC CACCCTCTAT
  - 841 CACTGACTTT CAGATACTGG AAAACCAGGC GTAGGTCTGG AGTCTCACTT GTCTCACTTG
  - 901 TGCAGTGTTG ACAGTTCATA TGTACCATGT ACATGAAGAA GCTAAATCCT TTACTGTTAG
  - 961 TCATTTGCTG AGCATGTACT GAGCCTTGTA ATTCTAAATG AATGTTTACA CTCTTTGTAA
- 1021 GAGTGGAACC AACACTAACA TATAATGTTG TTATTTAAAG AACACCCTAT ATTTTGCATA
- 1081 GTACCAATCA TTTTAATTAT TATTCTTCAT AACAATTTTA GGAGGACCAG AGCTACTGAC 1141 TATGGCTACC AAAAAGACTC TACCCATATT ACAGATGGGC AAATTAAGGC ATAAGAAAAC
- 1201 TAAGAAATAT GCACAATAGC AGTCGAAACA AGAAGCCACA GACCTAGGAT TTCATGATTT
- 1261 CATTTCAACT GTTTGCCTTC TGCTTTTAAG TTGCTGATGA ACTCTTAATC AAATAGCATA
- 1321 AGTTTCTGGG ACCTCAGTTT TATCATTTTC AAAATGGAGG GAATAATACC TAAGCCTTCC
- 1381 TGCCGCAACA GTTTTTTATG CTAATCAGGG AGGTCATTTT GGTAAAATAC TTCTCGAAGC
- 1441 CGAGCCTCAA GATGAAGGCA AAGCACGAAA TGTTATTTTT TAATTATTAT TTATATATGT
- 1501 ATTTATAAAT ATATTTAAGA TAATTATAAT ATACTATATT TATGGGAACC CCTTCATCCT
- 1561 CTGAGTGTGA CCAGGCATCC TCCACAATAG CAGACAGTGT TTTCTGGGAT AAGTAAGTTT
- 1621 GATTTCATTA ATACAGGGCA TTTTGGTCCA AGTTGTGCTT ATCCCATAGC CAGGAAACTC
- 1681 TGCATTCTAG TACTTGGGAG ACCTGTAATC ATATAATAAA TGTACATTAA TTACCTTGAG 1741 CCAGTAATTG GTCCGATCTT TGACTCTTTT GCCATTAAAC TTACCTGGGC ATTCTTGTTT
- 1801 CATTCAATTC CACCTGCAAT CAAGTCCTAC AAGCTAAAAT TAGATGAACT CAACTTTGAC
- 1861 AACCATGAGA CCACTGTTAT CAAAACTTTC TTTTCTGGAA TGTAATCAAT GTTTCTTCTA
- 1921 GGTTCTAAAA ATTGTGATCA GACCATAATG TTACATTATT ATCAACAATA GTGATTGATA
- 1981 GAGTGTTATC AGTCATAACT AAATAAAGCT TGCAACAAAA TTCTCTG
- (2) INFORMATION FOR SEQ ID NO:2517:
  - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: base pairs
    - (B) TYPE: 29433 nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2517:
  - 1 AAGCTTCTAC CCTAGTCTGG TGCTACACTT ACATTGCTTA CATCCAAGTG TGGTTATTTC
  - 61 TGTGGCTCCT GTTATAACTA TTATAGCACC AGGTCTATGA CCAGGAGAAT TAGACTGGCA
  - 121 TTAAATCAGA ATAAGAGATT TTGCACCTGC AATAGACCTT ATGACACCTA ACCAACCCCA
  - 181 TTATTTACAA TTAAACAGGA ACAGAGGGAA TACTTTATCC AACTCACACA AGCTGTTTTC
  - 241 CTCCCAGATC CATGCTTTTT TGCGTTTATT ATTTTTTAGA GATGGGGGCT TCACTATGTT
  - 301 GCCCACACTG GACTAAAACT CTGGGCCTCA AGTGATTGTC CTGCCTCAGC CTCCTGAATA
  - 361 GCTGGGACTA CAGGGGCATG CCATCACACC TAGTTCATTT CCTCTATTTA AAATATACAT
  - 421 GGCTTAAACT CCAACTGGGA ACCCAAAACA TTCATTTGCT AAGAGTCTGG TGTTCTACCA
  - 481 CCTGAACTAG GCTGGCCACA GGAATTATAA AAGCTGAGAA ATTCTTTAAT AATAGTAACC 541 AGGCAACATC ATTGAAGGCT CATATGTAAA AATCCATGCC TTCCTTTCTC CCAATCTCCA
  - 601 TTCCCAAACT TAGCCACTGG TTCTGGCTGA GGCCTTACGC ATACCTCCCG GGGCTTGCAC
  - 661 ACACCTTCTT CTACAGAAGA CACACCTTGG GCATATCCTA CAGAAGACCA GGCTTCTCTC

					GGTGGAGAGT	
					GAAGAGTAAG	
					GCCCTAACCA	
					CTTCCCTCTT	
					TTCTGCCAAT	
					TATTAGAACT	
					CACGATTTCT	
					ACTACATGTT	
					CTGGAATATC	
					ATCGAGTTGA	
					TTGACGACGC	
					AAGACTGACT	
					CAGCAAAGGT	
					CTTTGGCTGT	
					GTCCCTCCCT	
					TCATTTTGCT	
					AGGGCATGGG	
					ATTAGGAGAA	
					ACCTTATTCT	
					TGGCAATACA	
					AGTTTACGAT	
					TGGAGAAAAT	
					GAGGGGCTCC	
					TCTCTGTTGC	
					GTTACAGGTA	
					GAATCCAGCT	
					GTGTACTAGT CATGTTAAAC	
					GTCTGCTGAG	
					ATGCCCTGAT	
					GGAACAGGAA	
					CACTCAGATG	
					TAACATGATG	
					GCCTGGATAT	
					TGTGTAACAT	
					CTCTAAAGGA	
					AAGTCCAATT	
					ATTCCAGATT	
					TTCAAAGATG	
					AAGTACATTG	
					GACAGTGAAA	
					AAATGACTGT	
					AACAGCAATG	
					TGTCTTTCAT	
					TTCTCCCAGA	
					GCTTCATCAG	
					GTCTGTCTCC	
3541	TGTTGTGGTT	GTCTTCTCTG	ACACCAGCAT	CAGAGGTTAG	AGAAAGTCTC	CAAACATGAA
					TACAGCCACT	
					CTGCCTAGTA	
3721	ACTGGCTTTA	AAAGCTGTCC	CCAAAGGAGT	ATTTCTAAAA	TATTTTGAGC	ATTGTTAAGC
3781	AGATTTTTAA	CCTCCTGAGA	GGGAACTAAT	TGGAAAGCTA	CCACTCACTA	CAATCATTGT
					ATAAATGAAA	
					GAGACAAAAG	
					GGAGATCCTC	
					GACCATGAAC	
4081	CTTCTGTTTT	CCTTCCTCAC	AGAAATCCTT	CTATCATGTA	AGCTATGGCC	CACTCCATGA
					ACCTCTAAAA	
					AAGGTTCTGA	
4261	GTTGAGTTTA	AGCCAATCCA	TCACTGATGA	TGACCTGGAG	GCCATCGCCA	ATGACTCAGA
					AGTTTTAAGC	
					CAAGAAGACA	

4441	AGTCTGGTAA	CTATACAGAG	GAAAATTAAT	TTTTATCCTT	CTCCAGGAGG	GAGAAATGAG
4501	CAGTGGCCTG	AATCGAGAAT	ACTTGCTCAC	AGCCATTATT	·TCTTAGCCAT	ATTGTAAAGG
4561	TCGTGTGACT	TTTAGCCTTT	CAGGAGAAAG	CAGTAATAAG	ACCACTTACG	AGCTATGTTC
4621	CTCTCATACT	AACTATGCCT	CCTTGGTCAT	GTTACATAAT	CTTTTCGTGA	TTCAGTTTCC
4681	TCTACTGTAA	AATGGAGATA	ATCAGAATCC	CCCACTCATT	GGATTGTTGT	AAAGATTAAG
4741	AGTCTCAGGC	TTTACAGACT	GAGCTAGCTG	GGCCCTCCTG	ACTGTTATAA	AGATTAAATG
4801	AGTCAACATC	CCCTAACTTC	TGGACTAGAA	TAATGTCTGG	TACAAAGTAA	GCACCCAATA
4861	AATGTTAGCT	ATTACTATCA	TTATTATTAT	TATTTTATTT	TTTTTTTTTG	AGATGGAGTC
4921	TGGCTCTGTC	ACCCAGGCTG	GAGTGCAGTG	GCACAATCTC	GGCTCACTGC	AAGCTCTGCC
4981	TCCTGGGTTC	ATGCCATTCT	CCTGCCTCAG	CCTCCCGAGT	AAGCTGGGAA	TACAGGCACC
5041	CGCCACTGTT	CCCGGCTAAT	TTTTTGTATT	TTTAGTAGAG	ACGGAGTTTC	ACCGTGGTCT
5101	CCATCTCCTC	GTGATCCACC	CACCTTGGCC	TCCCAAAGTG	CCGGGATTAC	AGGCGTGAGC
5161	CACCGCGCCC	GGCCTATTAT	TATTATTATT	ACTACTACTA	CTACCTATAT	GAATACTACC
5221	AGCAATACTA	ATTTATTAAT	GACTGGATTA	TGTCTAAACC	TCACAAGAAT	CCTACCTTCT
5281	CATTTTACAT	AAAAGGAAAC	TAAGCTCATT	GAGATAGGTA	AACTGCCCAA	TGGCATACAT
5341	CTGTAAGTGG	GAGAGCCTCA	AATCTAATTC	AGTTCTACCT	GAGTAAAAAA	ATCATGGTTT
5401	CTCCTCCATC	CCTTTACTGT	ACAAGCCTCC	ACATGAACTA	TAAACCCAAT	ATTCCTGTTT
5461	TTAAGATAAT	ACCTAAGCAA	TAACGCATGT	TCACCTAGAA	GGTTTTAAAA	TGTAACAAAA
5521	TATAAGAAAA	TAAAAATCAC	TCATATCGTC	AGTGAGAGTT	TACTACTGCC	AGCACTATGG
5581	TATGTTTCCT	TAAAATCTTT	GCTATACACA	TACCTACATG	TGAACAAATA	TGTCTAACAT
5641	CAAGACCACA	CTATTTACAA	CTTTATATCC	AGCTTTTCTT	ACTTAGCAAT	GTATTGAGGA
5701	CATTTTAGAG	TGCCCGTTTT	TCACCATTAT	AAGCAATGCA	ACAATGAACA	TCTGTATAAA
5761	TAAATATTCA	TTTCTCTCAC	CCTTTATTTC	CTTAGAATAT	ATTCCTAGAA	GTAGAATTTC
5821	CCAGAGCCAT	GAGGATTTGT	GACGCTATTG	ATATGTGCCA	CTTTGCACTC	TCTGTGACAT
5881	ATATAATTAT	TTTTAATGCA	TTCATTTTTT	TCTCAGAGTG	CATTCGTTTG	AAAACATAGA
5941	CGGGAAATAC	TGGTAGTCTT	CCTTGTCAGT	TAGAAACACC	CAAACAATGA	AAAATGAAAA
6001	AGTTGCACAA	ATAGTCTCTA	AAAACAATGA	AACTATTGCC	TGAGGAATTG	AAGTTTAAAA
6061	AGAAGCACAT	AAGCAACAAC	AAGGATAATC	CTAGAAAACC	AGTTCTGCTG	ACTGGGTGAT
	TTCACTTCTC	TTTGCTTCCT	CATCTGGATT	GGAATATTCC	TAATACCCCC	TCCAGAACTA
6181	TTTTCCCTGT	TTGTACTAGA	CTGTGTATAT	CATCTGTGTT	TGTACATAGA	CATTAATCTG
6241	CACTTGTGAT	CATGGTTTTA	GAAATCATCA	AGCCTAGGTC	ATCACCTTTT	AGCTTCCTGA
6301	GCAATGTGAA	ATACAACTTT	ATGAGGATCA	TCAAATACGA	ATTCATCCTG	AATGACGCCC
6361		TATAATTCGA				
6421		AGGTACATTA				
		TATTTATTTC				
		ATTCTTCCAG				
		GTTCAACTAA				
		TGTGCACAAA				
6721		TTTTAAAACT				
		CAATGAAGAA				
		AACCAGGAAG				
		TACAAATATG				
		TTTTCATGGC				
		CAATTTTGCA				
		TCAACTCTAC ATTTTCCCAA				
		ATTTTCCCAA				
		GTATATATTA				
		TGCCTAGATC				
		AAAACTGAAC				
		CTCCATGTTA				
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		ACAAAGATGT				
		AACTACACAC				
		ATCAACACTT				
		CCAGTGAAAT				
		ATTCTAAGAA				
		CTGCTGAAGG				
		TAAATAAGCC				
		CACAGCCCCC TATGAGAAAA				
0101	HUUUHUUHIC	INIGNGMAMA	IMIMMUMGAG	AUUAUAHIUA	AMAI I ACCTT	CITICITTT

	CCTTTCCCTG					
	TTTACTGACA					
8281	TCCAAGAAAC	TCAAATAAGC	CAACTGAGAT	CAGAGAGGAT	TAATCACCTG	CCAATGGGCA
8341	CAAAGCAACA	AGCTGGGAGC	CAAGTCCCAA	AATGGGGCCT	GCTGCTTCCA	GTTCCCCTCT
	CTCTGCATTG					
8461	CTCAAACACA	CACACACACA	ACAGCCTTAG	ATGTTTTCTC	CACTGATAAG	TAGGTGACTC
8521	AATTTGTAAG	TATATAATCC	AAGACCTTCT	ATTCCCAAGT	AGAATTTATG	TGCCTGCCTG
	TGCTTTTCTA					
	TCATTCAACA					
	GTGTGGACAG					
8761	GGAAAACAGA	CAACCCAAAC	AACCAACAAA	AGAGCAAGAT	GCTGCAAAAA	TAAAAAAAA
8821	GAATAGGGTG	CTAAGATAGA	GAAAAGTGGG	AGAGTGCTAT	TTAGACAAAG	TGGTAAAAAC
8881	AAAGCCCCTT	GTGAGATGAG	AGCTGCCGAC	AGAGGGGGCG	GGTCATGGTT	GTGGGTTTTT
8941	GGGTAGGACA	TTCAGAGGAG	GGGGCGGGTC	GTGGTTGTGG	GTTTTTGGGT	AGGACATTCA
9001	GAGGAGGGG	CGGGTCGTGG	TTGTGGGTTT	TTGGGTAGGA	CATTCAGAGG	AGGGGGCGGG
9061	TCGTGGTTGT	GGGTTTTTGG	GTAGGACATT	CAGAGGAGGG	GGCGGGTCGT	GGTTGTGGGT
9121	TTTTGGGACA	TTCAGAGGAG	TCTGAATGCA	CCCAGGCCTA	CAACTTCAAG	ATGGTAAAGG
9181	ACAGCTCCAA	GGATCAGAAG	AAGCATTCTT	GGAACTGGGG	CATTTTGAGA	AGGAGGAAAA
9241	ATATGCAGAG	ACTAGTGCTT	GCAGAGCTTG	CATTTGGATT	TCATTTGAGG	TACAATGAAA
9301	ACCCATTAAT	GGGTTTCACA	CAGTGCAATG	GCCTGACCTC	ACTTATATTT	CCTAAAATAG
9361	AAAACAGATC	AGAAGGAAGG	CAATAGAGAA	GCAGAAAGTC	CAATGAGGAG	GTTTCACAGC
9421	AGTCATGGGG	GTGGGGTAAG	GAAAAGAAGT	GGAAAGAAAC	AGACAGAATT	GGGTTATATT
9481	TTGGAGATAG	AACCAACAGA	AGGAAGAGGA	GAAACAACAT	TTACTGAGAA	GGGAAAAAGT
9541	AGGAGAGGAA	TAGGTTTGGG	AAATAAATCC	TGCTGACATT	GGAAACCCCA	AGGAAGCCTC
9601	AAAAGTATAT	TTACTTGCTT	TAGATTTAAA	AGAATAGGAA	AGAAGCATCT	CAACTTGGAA
9661	TTTGAAATCT	ATTTTTCCAT	AAAAGTATTG	TTAAATTCTA	CTCATACTCA	CAAGAAAAGT
9721	ACATTCTAAA	GAGTATATTG	AAAGAGTTTA	CTGATATACT	TAGGAATTTT	GTGTGTATGT
9781	GTGTGTGTGT	ATGTGTGTGT	GTGTGTTTAA	CCTTCAATTG	TTGACTTAAA	TACTGAGATA
9841	AATGTCATCT	AAATGCTAAA	TTGATTTCCC	AAAGGTATGA	TTTGTTCACT	TGGAGATCAA
9901	AATGTTTAGG	GGGCTTAGAA	TCACTGTAGT	GCTCAGATTT	GATGCAAAAT	GTCTTAGGCC
9961	TATGTTGAAG	GCAGGACAGA	AACAATGTTT	CCCTCCTACC	TGCCTGGATA	CAGTAAGATA
10021	CTAGTGTCAC	TGACAATCTT	CATAACTAAT	TTAGATCTCT	CTCCAATCAA	CTAAGGAAAT
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	TGAACAAATG					
	TCTCATGAAG					
10261	CTAACAGAAT	TCTCTTCTTT	TCTTCATAGG	AGATGCCTGA	GATACCCAAA	ACCATCACAG
	GTAGTGAGAC					
	CAGTTGCCCA					
	GGGGGCCACC					
	TCACTTGTCT					
	AATCCTTTAC					
	TTTACACTCT					
	CCCTATATTT					
	GACCAGAGCT					
	TAAGGCATAA					
	TAGGATTTCA					
	TTAATCAAAT					
	AATACCTAAG					
	AAATACTTCT					
	TATTATTTAT					
	GGAACCCCTT					
	TGGGATAAGT					
	CATAGCCAGG					
	CATTAATTAC					
	CTGGGCATTC					
	TGAACTCAAC					
	ATCAATGTTT					
	ACAATAGTGA					
	CTGACACATA					
	TGGTAAATGT					
	TTATATTTTT ATATTTCCGG					
11021	MINITICUG	GIICACTTAA	AGCICATATT	ACACATACAC	AAAACATGTG	TTCCCATCTT

11001	TATACAAACT	CACACATACA	CACCTACATT	<u>አአአአአ</u> ርአአርጥ	אאשארכרכאר	CCACCCTCCC
	TCAGACCTGT			AAAAACAACI	AATAGGCCAG	GCACGGIGGC
				CCCTCCTCTC	CCATTCTCTT	CACCCAAMCM
	ACCAACCTCT					
	TCATTGCTCA					
	TGGCTTATTA					
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	TCTCCGACCA					
	ACAAGCTGAG					
	CCTTCTTTCC					
	CTTATGTGCA					
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	TACCTGTGGC					
	ATAAGCCCAC					
	AAAAGCGATT					
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	AGCTGTACCC					
	GAACAGAAAG					
	CCAACTGCCT					
	GCTCTCTCCT					
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	CTGTCATTCG					
	TGTTTGTTTT					
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	CTGGAGCAGG					
	CAAGAGATAG					
	CACCAAAAAA					
	GGCTAGGGTA					
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	CAATTTTCTC					
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1681	TTGTCAGGAA	AACAATGCAT	ATTTGCATGG	TGATACATTT	GCAAAATGTG	TCATAGTTTG
1741	CTACTCCTTG	CCCTTCCATG	AACCAGAGAA	TTATCTCAGT	TTATTAGTCC	CCTCCCCTAA
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1921	GAAACTGGCA	GATACCAAAC	CTCTTCGAGG	CACAAGGCAC	AACAGGCTGC	TCTGGGATTC
1981	${\tt TCTTCAGCCA}$	ATCTTCATTG	CTCAAGTATG	ACTTTAATCT	TCCTTACAAC	TAGGTGCTAA
2041	GGGAGTCTCT	CTGTCTCTCT	GCCTCTTTGT	GTGTATGCAT	ATTCTCTCTC	TCTCTCTCTT

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2281	ATTGCTAGTT	GGGGTTTGGT	TTAGCAAATG	CTTTTCTCTA	GACCCAAAGG	ACTTCTCTTT
2341	CACACATTCA	TTCATTTACT	CAGAGATCAT	TTCTTTGCAT	GACTGCCATG	CACTGGATGC
2401	TGAGAGAAAT	CACACATGAA	CGTAGCCGTC	ATGGGGAAGT	CACTCATTTT	CTCCTTTTTA
2461	CACAGGTGTC	TGAAGCAGCC	ATGGCAGAAG	TACCTGAGCT	CGCCAGTGAA	ATGATGGCTT
2521	ATTACAGGTC	AGTGGAGACG	CTGAGACCAG	TAACATGAGC	AGGTCTCCTC	TTTCAAGAGT
2581	AGAGTGTTAT	CTGTGCTTGG	AGACCAGATT	TTTCCCCTAA	ATTGCCTCTT	TCAGTGGCAA
2641	ACAGGGTGCC	AAGTAAATCT	GATTTAAAGA	CTACTTTCCC	ATTACAAGTC	CCTCCAGCCT
2701	TGGGACCTGG	AGGCTATCCA	GATGTGTTGT	TGCAAGGGCT	TCCTGCAGAG	GCAAATGGGG
2761	AGAAAAGATT	CCAAGCCCAC	AATACAAGGA	ATCCCTTTGC	AAAGTGTGGC	TTGGAGGGAG
2821	AGGGAGAGCT	CAGATTTTAG	CTGACTCTGC	TGGGCTAGAG	GTTAGGCCTC	AAGATCCAAC
2881	AGGGAGCACC	AGGGTGCCCA	CCTGCCAGGC	CTAGAATCTG	CCTTCTGGAC	TGTTCTGCGC
2941	ATATCACTGT	GAAACTTGCC	AGGTGTTTCA	GGCAGCTTTG	AGAGGCAGGC	TGTTTGCAGT
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		ATGTCCCTGT				
		TAAACAGATG				
		GGGAAAGCTC				
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		GGGGAGGAGT				
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		TGAAACCAAG				
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		CCTGCAACCT				
		GGTCATTTTT				
		TTTATATGAT				
		TGCAGGTTGG				
		CCCTAGCCTC				
		GACTGGCATA				
		TTTGCCCCCC				
		GCTCAACTTT				
		TTATCAGCCT				
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4381	GAGTGAGCAT	AGGTGAATGG	AAAATGTTAT	GGTCATCTGC	ATGAAAAAGC	AAATCATAGT
4441	GTGACAGCAT	TAGGGATACA	AAAAGATATA	GAGAAGGTAT	ACATGTATGG	TGTAGGTGGG
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		TTGCAACTCC				
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		GCCACAGTGA				
		TGTTCTTAGC				
		GTATATGCTC				

5021	CCACCCCTCC	CCDDCDCADD		303303000	OM OO 2 O 2 MMM	
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	AGCTCTCCAC					
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	ATTTAAGGCA					
	GGTCCTAGAA					
	CCTGAGAAAT					
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	AAATGAGTGT					
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	GCTGGGAACA					
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	AATCACCACC					
	ATTCTAGGAC					
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	AGGGAACAGA					
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	CTTTAAATCA					
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	CCTAGAAATA					
	TTCAACAGAA					
	TCAGGACTGG					
	CAAGCGCTAT					
	AGATAGGAGA					
	GAAGAACGAA					
	AGGGATAAAC					
9481	AATCCCAGCA	CTTTGGGTGG	CAGGGGCAGA	AAGATCGCTT	GAGCCCAGGA	GTTCAAGACC

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	TCAGCCAGGC					
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9721	-					
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	TGGCTTATTA					
	TGAAGTGCTC					
	TCTCCGACCA					
	ACAAGCTGAG					
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	CTTATGTGCA					
	AAAGCTTGGT					
	TGGAGCAACA					
	TACCTGTGGC					
	ATAAGCCCAC					
	AAAAGCGATT					
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	ATGGAAAATG					
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	AACAGCGACA					
661	AGCAAGTCAG	ATGATAAAAA	CGAAAATAAA	AACGACCCAA	AGAAGAAGAT	GGAAAAGCGA
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61	GACAGTTCCT	CCATTGATCA	${\tt TCTGTCTCTG}$	AATCAGAAAT	CCTTCTATCA	TGTAAGCTAT
	GGCCCACTCC					
	AAAACATCCA					
	CTGAAGAAGA					
301	GCCAATGACT	CAGAGGAAGA	AATCATCAAG	CCTAGGTCAG	CACCTTTTAG	CTTCCTGAGC
361	AATGTGAAAT	ACAACTTTAT	GAGGATCATC	AAATACGAAT	TCATCCTGAA	TGACGCCCTC
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481	GATGAAGCAG	TGAAATTTGA	CATGGGTGCT	TATAAGTCAT	CAAAGGATGA	TGCTAAAATT
541	ACCGTGATTC	TAAGAATCTC	AAAAACTCAA	TTGTATGTGA	CTGCCCAAGA	TGAAGACCAA
601	CCAGTGCTGC	TGAAGGAGAT	GCCTGAGATA	CCCAAAACCA	TCACAGGTAG	TGAGACCAAC
661	CTCCTCTTCT	TCTGGGAAAC	TCACGGCACT	AAGAACTATT	TCACATCAGT	TGCCCATCCA
721	AACTTGTTTA	TTGCCACAAA	GCAAGACTAC	TGGGTGTGCT	TGGCAGGGG	GCCACCCTCT
	ATCACTGACT					
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901	AGTCATTTGC	TGAGCATGTA	CTGAGCCTTG	TAATTCTAAA	TGAATGTTTA	CACTCTTTGT
961	AAGAGTGGAA	CCAACACTAA	CATATAATGT	TGTTATTTAA	AGAACACCCT	ATATTTTGCA
1021	TAGTACCAAT	CATTTTAATT	ATTATTCTTC	ATAACAATTT	TAGGAGGACC	AGAGCTACTG
1081	ACTATGGCTA	CCAAAAAGAC	TCTACCCATA	TTACAGATGG	GCAAATTAAG	GCATAAGAAA
1141	ACTAAGAAAT	ATGCACAATA	GCAGTTGAAA	CAAGAAGCCA	CAGACCTAGG	ATTTCATGAT
1201	TTCATTTCAA	CTGTTTGCCT	TCTGCTTTTA	AGTTGCTGAT	GAACTCTTAA	TCAAATAGCA
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1981 TTGAGTCAGC AAAGAAGTCA AG
   1 AGCTGCCAGC CAGAGAGGGA GTCATTTCAT TGGCGTTTGA GTCAGCAAAG AAGTCAAGAT
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 781 CTTGTTTATT GCCACAAAGC AAGACTACTG GGTGTGCTTG GCAGGGGGGC CACCCTCTAT
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1441 CGAGCCTCAA GATGAAGGCA AAGCACGAAA TGTTATTTTT TAATTATTAT TTATATATGT
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1681 TGCATTCTAG TACTTGGGAG ACCTGTAATC ATATAATAAA TGTACATTAA TTACCTTGAG
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1921 GGTTCTAAAA ATTGTGATCA GACCATAATG TTACATTATT ATCAACAATA GTGATTGATA
1981 GAGTGTTATC AGTCATAACT AAATAAAGCT TGCAACAAAA TTCTCTG
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# (2) INFORMATION FOR SEQ ID NO:2518:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1308 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2518:
- 1 GCCACGTGCT GCTGGGTCTC AGTCCTCCAC TTCCCGTGTC CTCTGGAAGT TGTCAGGAGC
- 61 AATGTTGCGC TTGTACGTGT TGGTAATGGG AGTTTCTGCC TTCACCCTTC AGCCTGCGGC
- 121 ACACACAGGG GCTGCCAGAA GCTGCCGGTT TCGTGGGAGG CATTACAAGC GGGAGTTCAG
- 181 GCTGGAAGGG GAGCCTGTAG CCCTGAGGTG CCCCCAGGTG CCCTACTGGT TGTGGGCCTC
- 241 TGTCAGCCCC CGCATCAACC TGACATGGCA TAAAAATGAC TCTGCTAGGA CGGTCCCAGG
- 301 AGAAGAAGA ACACGGATGT GGGCCCAGGA CGGTGCTCTG TGGCTTCTGC CAGCCTTGCA
- 361 GGAGGACTCT GGCACCTACG TCTGCACTAC TAGAAATGCT TCTTACTGTG ACAAAATGTC

- 421 CATTGAGCTC AGAGTTTTTG AGAATACAGA TGCTTTCCTG CCGTTCATCT CATACCCGCA
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  541 TGACAAAACT GACGTGAAGA TTCAATGGTA CAAGGATTCT CTTCTTTTGG ATAAAGACAA
  601 TGAGAAATTT CTAAGTGTGA GGGGGACCAC TCACTTACTC GTACACGATG TGGCCCTGGA
  661 AGATGCTGGC TATTACCGCT GTGTCCTGAC ATTTGCCCAT GAAGGCCAGC AATACAACAT
  721 CACTAGGAGT ATTGAGCTAC GCATCAAGAA AAAAAAAGAA GAGACCATTC CTGTGATCAT
  781 TTCCCCCCTC AAGACCATAT CAGCTTCTCT GGGGTCAAGA CTGACAATCC CGTGTAAGGT
  841 GTTTCTGGGA ACCGGCACAC CCTTAACCAC CATGCTGTGG TGGACGGCCA ATGACACCCA
  901 CATAGAGGAC GCCTACCCGG GAGGCCGCGT GACCGAGGGG CCACGCCAGG AATATTCAGA
  961 AAATAATGAG AACTACATTG AAGTGCCATT GATTTTTGAT CCTGTCACAA GAGAGGATTT
  1021 GCACATGGAT TTTAAATGTG TTGTCCATAA TACCCTGAGT TTTCAGACAC TACGCACCAC
  1081 AGTCAAGGAA GCCTCCTCCA CGTTCTCCTG GGGCATTGTG CTGGCCCCAC TTTCACTGGC
  141 CTTCTTGGTT TTGGGGGGAA TATGGATGCA CAGACGGTGC AAACACAGAA CTGGAAAAGC
  1201 AGATGGTCTG ACTGTGCTAT GGCCTCATCA TCAAGACTTT CAATCCTATC CCAAGTGAAA
  1261 TAAATGGAAT GAAATAATTC AAACACAAAA AAAAAAAAA AAAAAAAA
- (2) INFORMATION FOR SEQ ID NO:2519:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2156 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2519:
- 1 GCCGGAGCCG ACTCGGAGCG CGCGGCGCGG CCGGGAGGAG CCGAGCGCGC CGGGCGCGC 61 GTGGGGGCGC CGGCTGCCCC GCGCGCCCAG GGAGCGGCAG GAATGTGACA ATCGCGCGCC 121 CGCACCGTAG CACTCCTCGC TCGGCTCCTA GGGCTCTCGC CCTCTGAGCT GAGCCGGGTT 181 CCGCCCGGGC TGGGATCCCA TCACCCTCCA CGGCCGTCCG TCCAGGTAGA CGCACCCTCT 241 GAAGATGGTG ACTCCCTCCT GAGAAGCTGG ACCCCTTGGT AAAAGACAAG GCCTTCTCCA 301 AGAAGAATAT GAAAGTGTTA CTCAGACTTA TTTGTTTCAT AGCTCTACTG ATTTCTTCTC 361 TGGAGGCTGA TAAATGCAAG GAACGTGAAG AAAAAATAAT TTTAGTGTCA TCTGCAAATG 421 AAATTGATGT TCGTCCCTGT CCTCTTAACC CAAATGAACA CAAAGGCACT ATAACTTGGT 481 ATAAAGATGA CAGCAAGACA CCTGTATCTA CAGAACAAGC CTCCAGGATT CATCAACACA 541 AAGAGAAACT TTGGTTTGTT CCTGCTAAGG TGGAGGATTC AGGACATTAC TATTGCGTGG 601 TAAGAAATTC ATCTTACTGC CTCAGAATTA AAATAAGTGC AAAATTTGTG GAGAATGAGC 661 CTAACTTATG TTATAATGCA CAAGCCATAT TTAAGCAGAA ACTACCCGTT GCAGGAGACG 721 GAGGACTTGT GTGCCCTTAT ATGGAGTTTT TTAAAAATGA AAATAATGAG TTACCTAAAT 781 TACAGTGGTA TAAGGATTGC AAACCTCTAC TTCTTGACAA TATACACTTT AGTGGAGTCA 841 AAGATAGGCT CATCGTGATG AATGTGGCTG AAAAGCATAG AGGGAACTAT ACTTGTCATG 901 CATCCTACAC ATACTTGGGC AAGCAATATC CTATTACCCG GGTAATAGAA TTTATTACTC 961 TAGAGGAAAA CAAACCCACA AGGCCTGTGA TTGTGAGCCC AGCTAATGAG ACAATGGAAG 1021 TAGACTTGGG ATCCCAGATA CAATTGATCT GTAATGTCAC CGGCCAGTTG AGTGACATTG 1081 CTTACTGGAA GTGGAATGGG TCAGTAATTG ATGAAGATGA CCCAGTGCTA GGGGAAGACT 1141 ATTACAGTGT GGAAAATCCT GCAAACAAAA GAAGGAGTAC CCTCATCACA GTGCTTAATA 1201 TATCGGAAAT TGAAAGTAGA TTTTATAAAC ATCCATTTAC CTGTTTTGCC AAGAATACAC 1261 ATGGTATAGA TGCAGCATAT ATCCAGTTAA TATATCCAGT CACTAATTTC CAGAAGCACA 1321 TGATTGGTAT ATGTGTCACG TTGACAGTCA TAATTGTGTG TTCTGTTTTC ATCTATAAAA 1381 TCTTCAAGAT TGACATTGTG CTTTGGTACA GGGATTCCTG CTATGATTTT CTCCCAATAA 1441 AAGCTTCAGA TGGAAAGACC TATGACGCAT ATATACTGTA TCCAAAGACT GTTGGGGAAG 1501 GGTCTACCTC TGACTGTGAT ATTTTTGTGT TTAAAGTCTT GCCTGAGGTC TTGGAAAAAC 1561 AGTGTGGATA TAAGCTGTTC ATTTATGGAA GGGATGACTA CGTTGGGGAA GACATTGTTG 1621 AGGTCATTAA TGAAAACGTA AAGAAAAGCA GAAGACTGAT TATCATTTTA GTCAGAGAAA 1681 CATCAGGCTT CAGCTGGCTG GGTGGTTCAT CTGAAGAGCA AATAGCCATG TATAATGCTC 1741 TTGTTCAGGA TGGAATTAAA GTTGTCCTGC TTGAGCTGGA GAAAATCCAA GACTATGAGA 1801 AAATGCCAGA ATCGATTAAA TTCATTAAGC AGAAACATGG GGCTATCCGC TGGTCAGGGG 1861 ACTTTACACA GGGACCACAG TCTGCAAAGA CAAGGTTCTG GAAGAATGTC AGGTACCACA 1921 TGCCAGTCCA GCGACGGTCA CCTTCATCTA AACACCAGTT ACTGTCACCA GCCACTAAGG 1981 AGAAACTGCA AAGAGAGGCT CACGTGCCTC TCGGGTAGCA TGGAGAAGTT GCCAAGAGTT 2041 CTTTAGGTGC CTCCTGTCTT ATGGCGTTGC AGGCCAGGTT ATGCCTCATG CTGACTTGCA 2101 GAGTTCATGG AATGTAACTA TATCATCCTT TATCCCTGAG GTCACCAGGA ATCAGG
- (2) INFORMATION FOR SEQ ID NO:2520:
  - (i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 3464 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEO ID NO:2520:
   1 GCCACGTGCT GCTGGGTCTC AGTCCTCCAC TTCCCGTGTC CTCTGGAAGT TGTCAGGAGC
  61 AATGTTGCGC TTGTACGTGT TGGTAATGGG AGTTTCTGCC TTCACCCTTC AGCCTGCGGC
 121 ACACACAGGG GCTGCCAGAA GCTGCCGGTT TCGTGGGAGG CATTACAAGC GGGAGTTCAG
 181 GCTGGAAGGG GAGCCTGTAG CCCTGAGGTG CCCCAGGTG CCCTACTGGT TGTGGGCCTC
 241 TGTCAGCCCC CGCATCAACC TGACATGGCA TAAAAATGAC TCTGCTAGGA CGGTCCCAGG
 301 AGAAGAAGAG ACACGGATGT GGGCCCAGGA CGGTGCTCTG TGGCTTCTGC CAGCCTTGCA
 361 GGAGGACTCT GGCACCTACG TCTGCACTAC TAGAAATGCT TCTTACTGTG ACAAAATGTC
 421 CATTGAGCTC AGAGTTTTTG AGAATACAGA TGCTTTCCTG CCGTTCATCT CATACCCGCA
 481 AATTTTAACC TTGTCAACCT CTGGGGTATT AGTATGCCCT GACCTGAGTG AATTCACCCG
 541 TGACAAAACT GACGTGAAGA TTCAATGGTA CAAGGATTCT CTTCTTTTGG ATAAAGACAA
 601 TGAGAAATTT CTAAGTGTGA GGGGGACCAC TCACTTACTC GTACACGATG TGGCCCTGGA
 661 AGATGCTGGC TATTACCGCT GTGTCCTGAC ATTTGCCCAT GAAGGCCAGC AATACAACAT
 721 CACTAGGAGT ATTGAGCTAC GCATCAAGAA AAAAAAAGAA GAGACCATTC CTGTGATCAT
 781 TTCCCCCCTC AAGACCATAT CAGCTTCTCT GGGGTCAAGA CTGACAATCC CGTGTAAGGT
 841 GTTTCTGGGA ACCGCACAC CCTTAACCAC CATGCTGTGG TGGACGCCCA ATGACACCCA
 901 CATAGAGAGC GCCTACCCGG GAGGCCGCGT GACCGAGGGG CCACGCCAGG AATATTCAGA
 961 AAATAATGAG AACTACATTG AAGTGCCATT GATTTTTGAT CCTGTCACAA GAGAGGATTT
1021 GCACATGGAT TTTAAATGTG TTGTCCATAA TACCCTGAGT TTTCAGACAC TACGCACCAC
1081 AGTCAAGGAA GCCTCCTCCA CGTTCTCCTG GGGCATTGTG CTGGCCCCAC TTTCACTGGC
1141 CTTCTTGGTT TTGGGGGGAA TATGGATGCA CAGACGTGC AAACACAGAA CTGGAAAAGC
1201 AGATGGTCTG ACTGTGCTAT GGCCTCATCA TCAAGACTTT CAATCCTATC CCAAGTGAAA
1261 TAAATGGAAT GAAATAATTC AAACACAAAA AAAAAAAAA AAAAAAAA
   1 GCCGGAGCCG ACTCGGAGCG CGCGGCGCGG CCGGGAGGAG CCGAGCGCGC CGGGCGCGCG
  61 GTGGGGGCGC CGGCTGCCCC GCGCGCCCAG GGAGCGCAG GAATGTGACA ATCGCGCGCC
 121 CGCACCGTAG CACTCCTCGC TCGGCTCCTA GGGCTCTCGC CCTCTGAGCT GAGCCGGGTT
 181 CCGCCCGGGC TGGGATCCCA TCACCCTCCA CGGCCGTCCG TCCAGGTAGA CGCACCCTCT
 241 GAAGATGGTG ACTCCCTCCT GAGAAGCTGG ACCCCTTGGT AAAAGACAAG GCCTTCTCCA
 301 AGAAGAATAT GAAAGTGTTA CTCAGACTTA TTTGTTTCAT AGCTCTACTG ATTTCTTCTC
 361 TGGAGGCTGA TAAATGCAAG GAACGTGAAG AAAAAATAAT TTTAGTGTCA TCTGCAAATG
 421 AAATTGATGT TCGTCCCTGT CCTCTTAACC CAAATGAACA CAAAGGCACT ATAACTTGGT
 481 ATAAAGATGA CAGCAAGACA CCTGTATCTA CAGAACAAGC CTCCAGGATT CATCAACACA
 541 AAGAGAAACT TTGGTTTGTT CCTGCTAAGG TGGAGGATTC AGGACATTAC TATTGCGTGG
 601 TAAGAAATTC ATCTTACTGC CTCAGAATTA AAATAAGTGC AAAATTTGTG GAGAATGAGC
 661 CTAACTTATG TTATAATGCA CAAGCCATAT TTAAGCAGAA ACTACCCGTT GCAGGAGACG
 721 GAGGACTTGT GTGCCCTTAT ATGGAGTTTT TTAAAAATGA AAATAATGAG TTACCTAAAT
 781 TACAGTGGTA TAAGGATTGC AAACCTCTAC TTCTTGACAA TATACACTTT AGTGGAGTCA
 841 AAGATAGGCT CATCGTGATG AATGTGGCTG AAAAGCATAG AGGGAACTAT ACTTGTCATG
 901 CATCCTACAC ATACTTGGGC AAGCAATATC CTATTACCCG GGTAATAGAA TTTATTACTC
 961 TAGAGGAAAA CAAACCCACA AGGCCTGTGA TTGTGAGCCC AGCTAATGAG ACAATGGAAG
1021 TAGACTTGGG ATCCCAGATA CAATTGATCT GTAATGTCAC CGGCCAGTTG AGTGACATTG
1081 CTTACTGGAA GTGGAATGGG TCAGTAATTG ATGAAGATGA CCCAGTGCTA GGGGAAGACT
1141 ATTACAGTGT GGAAAATCCT GCAAACAAAA GAAGGAGTAC CCTCATCACA GTGCTTAATA
1201 TATCGGAAAT TGAAAGTAGA TTTTATAAAC ATCCATTTAC CTGTTTTGCC AAGAATACAC
1261 ATGGTATAGA TGCAGCATAT ATCCAGTTAA TATATCCAGT CACTAATTTC CAGAAGCACA
1321 TGATTGGTAT ATGTGTCACG TTGACAGTCA TAATTGTGTG TTCTGTTTTC ATCTATAAAA
1381 TCTTCAAGAT TGACATTGTG CTTTGGTACA GGGATTCCTG CTATGATTTT CTCCCAATAA
1441 AAGCTTCAGA TGGAAAGACC TATGACGCAT ATATACTGTA TCCAAAGACT GTTGGGGAAG
1501 GGTCTACCTC TGACTGTGAT ATTTTTGTGT TTAAAGTCTT GCCTGAGGTC TTGGAAAAAC
1561 AGTGTGGATA TAAGCTGTTC ATTTATGGAA GGGATGACTA CGTTGGGGAA GACATTGTTG
1621 AGGTCATTAA TGAAAACGTA AAGAAAAGCA GAAGACTGAT TATCATTTTA GTCAGAGAAA
1681 CATCAGGCTT CAGCTGGCTG GGTGGTTCAT CTGAAGAGCA AATAGCCATG TATAATGCTC
1741 TTGTTCAGGA TGGAATTAAA GTTGTCCTGC TTGAGCTGGA GAAAATCCAA GACTATGAGA
1801 AAATGCCAGA ATCGATTAAA TTCATTAAGC AGAAACATGG GGCTATCCGC TGGTCAGGGG
1861 ACTTTACACA GGGACCACAG TCTGCAAAGA CAAGGTTCTG GAAGAATGTC AGGTACCACA
1921 TGCCAGTCCA GCGACGGTCA CCTTCATCTA AACACCAGTT ACTGTCACCA GCCACTAAGG
1981 AGAAACTGCA AAGAGAGGCT CACGTGCCTC TCGGGTAGCA TGGAGAAGTT GCCAAGAGTT
2041 CTTTAGGTGC CTCCTGTCTT ATGGCGTTGC AGGCCAGGTT ATGCCTCATG CTGACTTGCA
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## 2101 GAGTTCATGG AATGTAACTA TATCATCCTT TATCCCTGAG GTCACCAGGA ATCAGG

- (2) INFORMATION FOR SEQ ID NO:2521:
   (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 1185 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2521:
  - 1 GCTCAGGGCA CATGCCTCCC CTCCCCAGGC CGCGCCCCAG CTGACCCTCG GGGCTCCCCC 61 GGCAGCGGAC AGGGAAGGGT TAAAGGCCCC CGGCTCCCTG CCCCTGCCC TGGGGAACCC
  - 121 CTGGCCCTGT GGGGACATGA ACTGTGTTTG CCGCCTGGTC CTGGTCGTGC TGAGCCTGTG
  - 181 GCCAGATACA GCTGTCGCCC CTGGGCCACC ACCTGGCCCC CCTCGAGTTT CCCCAGACCC
  - 241 TCGGGCCGAG CTGGACAGCA CCGTGCTCCT GACCCGCTCT CTCCTGGCGG ACACGCGGCA
  - 301 GCTGGCTGCA CAGCTGAGGG ACAAATTCCC AGCTGACGGG GACCACAACC TGGATTCCCT
  - 361 GCCCACCCTG GCCATGAGTG CGGGGGCACT GGGAGCTCTA CAGCTCCCAG GTGTGCTGAC
  - 421 AAGGCTGCGA GCGGACCTAC TGTCCTACCT GCGGCACGTG CAGTGGCTGC GCCGGGCAGG
  - 481 TGGCTCTTCC CTGAAGACCC TGGAGCCCGA GCTGGGCACC CTGCAGGCCC GACTGGACCG
  - 541 GCTGCTGCGC CGGCTGCAGC TCCTGATGTC CCGCCTGGCC CTGCCCCAGC CACCCCCGGA
  - 601 CCCGCCGGCG CCCCCGCTGG CGCCCCCCTC CTCAGCCTGG GGGGGCATCA GGGCCGCCCA
  - 661 CGCCATCCTG GGGGGGCTGC ACCTGACACT TGACTGGGCC GTGAGGGGAC TGCTGCTGCT
  - 721 GAAGACTCGG CTGTGACCCG GGGCCCAAAG CCACCACCGT CCTTCCAAAG CCAGATCTTA 781 TTTATTTATT TATTTCAGTA CTGGGGGCGA AACAGCCAGG TGATCCCCCC GCCATTATCT
  - 841 CCCCCTAGTT AGAGACAGTC CTTCCGTGAG GCCTGGGGGA CATCTGTGCC TTATTTATAC
  - 901 TTATTTATTT CAGGAGCAGG GGTGGGAGGC AGGTGGACTC CTGGGTCCCC GAGGAGGAGG
- 961 GGACTGGGGT CCCGGATTCT TGGGTCTCCA AGAAGTCTGT CCACAGACTT CTGCCCTGGC
- 1021 TCTTCCCCAT CTAGGCCTGG GCAGGAACAT ATATTATTTA TTTAAGCAAT TACTTTTCAT
- 1081 GTTGGGGTGG GGACGGAGGG GAAAGGGAAG CCTGGGTTTT TGTACAAAAA TGTGAGAAAC
- 1141 CTTTGTGAGA CAGAGAACAG GGAATTAAAT GTGTCATACA TATCC
- (2) INFORMATION FOR SEQ ID NO:2522:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 6870 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2522:
  - 1 CAGCTGCGGC ATCCTCTGTC TCAGAGTCTT GGTGTCTCTG TTCCTTTCCC CTCGGGGTCT
  - 61 CCCTGGGTCT CCCCAAGTCC CTCCTGCTGT CTTCCTCCCG CTCTCTGATC TCTGACTCCC 121 AGAACCTCTC CCTCTGTCTC CAGGGCTGCC CCTCTGATCC TCTTGCTTC TCTGGTGTGT
  - 181 CTCTCTGGCT GCCTCCATCT CTGTGGATCT CCGTCTCCCT GTCTCTGTCT CAGTCTGTCC
  - 241 TTCACTCTGT GTGTGTGTG GTCTCTCTCT CTCTCTCCC TTCCCTTCCA CTCCCTCTTC
    301 CTCCTGCCTC CACCTCTCCA GGCCCCTGTC TTGTCCCTCC GTCCGGCCTT TCTCTGCCTT
  - 361 TCCGTCCTCC TGCCTCCCCA TCTCTCTCTG CTAGTCCTGT CCAGCCGGAC CCCCACCCAC
  - 421 AGTCGGGCCC CAGCGCTTGA GCCTGAGTGT CTGCTCCGGC CCGTGGAGGT GGAGGGAGGG
  - 481 GACGCCAATG ACCTCACCAG CCCCTCTCCG ACCACCCCCC CCTTTCCCTT TTCAACTTTT 541 CCAACTTTC CTTCCGTGCC CTCCTCCGAG CGCGGCGGCG TGAGCCCTGC AAGGCAGCCG
- 601 CTCCGTCTGA ATGGAAAAGG CAGGCAGGGA GGGTGAGTCA GGATGTGTCA GGCCGGCCCT
- 661 CCCCTGCCGC CTGCCCCCG CCCGCCCGCC CCAGGCCCC TATATAACCC CCCAGGCGTC
- 721 CACACTCCCT CACTGCCGCG GGCCCTGCTG CTCAGGGCAC ATGCCTCCCC TCCCCAGCCG
- 781 CGGGCCCAGC TGACCCTCGG GGCTCCCCCG GCAGCGGACA GGGAAGGGTT AAAGGCCCCC
- 841 GGCTCCCTGC CCCCTGCCCT GGGGAACCCC TGGCCCTGTG GGGACATGAA CTGTAAGTTG
- 901 GTTCATGGGG AGGGTGGAGG GGACAGGGAG GCAGGGAGGA GAGGGACCCA CGGCGGGGGT 961 GGGAGCAGAC CCCGCTGAGT CGCACAGAGA GGGACCCGGA GACAGGCAGC CGGGGAGGAG
- 1021 AGCAGCTTCG GAGACAGGAG GCGCCGGAGG AGATGGGCAG AGACAGGCAGC CGGGGAGGAGC
- 1081 GGATGGAGGC AGCCAATCAG AGGCGCCGCA GGAGGGACGG GCCAGACAGG GCCCGAGAGG 1141 AGCGAGACGC GAGACCGAGC AGGGGCAGGG ACGCAGGGAC TGGTGCCGGG AGGGAGGTGA
- 1201 CCCCCATCGA CCCAGGCCCC AGGGAGCCCG CGGGGACCGG GAGACTCCCT GGGATTCCGG
- 1261 CAGAGAGGCT CCGGAGGGAA ACTGAGGCAG GGTCCGCGGA GAGCGGAGCA AGCCAGGGAG 1321 TAGCGACCCC AGCCGGGGG AGGAGAGAG CTGGGCGCCG GGGGAAAGCG GGGAGAGCCG
- 1381 GGCAGATGCG GCCGACGGAG GCGCGGACAG ACCGACGGCT GGCGGGCCCG GGGGGCGGGC
- 1441 TGGGGGTGTG CGAGGCGCGG GCGGCCGGGG AGCGCTGATT GGCTGGCGGG TGGCCGGGTG 1501 GGCGGGCGG CCGGGGTGGG CTGCGGGGAG CGAGCTCCGG ACCCCCGCGC CCCCGGCGCC

156	1 CCCCGCGCCC	CCCGCCGCCA	GCTCTCCCGC	TCCCGGCGCC	CGGCCGGGCC	ATGGCTCTGC
	1 CCCTCTCCGC					
	1 GAGGGCGTCT					
	1 TTTTGGCTCC					
180	1 GTTCTGGCCT	GTGCCTCCCC	CACCATCCGC	GCCCCGGGGC	CCAGATTCCG	GCGTCCGGGG
186	1 GCGGACGGGA	GACGCCCGGG	CCGCGTCTGC	TCCGACGGGC	GGGGCAGCCA	GAGCCAGGGA
192	1 GGGAGAGGGA	AGCCCGCCTG	GCCCTGCGAC	CTGCCCGCGG	GCGTTCCACC	CTGGGACTTA
198	1 AGACCTCCAG	CTCCATCCTC	CCTAAGGCCG	GGAGTCCAGG	CCCCAGACCC	TCCTCCCCGA
204	1 GACCCAGGAG	TCCAGACCCC	AGGCCTTCCT	CCCTCAGACC	TAGGAGTCCA	GGCCCCCAGC
210	1 CTCTCCTCCC	TCAGACCCAG	GAGGAGTCCA	GACCCCAGTT	CCTCCTCCCT	CAGACCCGGG
216	1 AGTCCAGCCC	AGGCCCTCCT	CTCTCAGACC	CGGAGTCCAG	CCTGAGCTCT	CTGCCTTATC
222	1 CTGCCCCCAG	GTGTTTGCCG	CCTGGTCCTG	GTCGTGCTGA	GCCTGTGGCC	AGATACAGCT
228	1 GTCGCCCCTG	GGCCACCACC	TGGCCCCCCT	CGAGTTTCCC	CAGACCCTCG	GCCCACCTC
234	1 GACAGCACCG	TGCTCCTGAC	CCGCTCTCTC	CTGGCGGACA	CCCCCCACCT	GGCTGCACAC
240	1 CTGGTAGGAG	AGACTGGGCT	GGGGCCAGCA	CAGGAGTGAG	AGGCAGAGAG	CAACGCACAC
246	1 GAGTCTGCGG	GCAGCCACTT	GGAGGGGTTC	TGGGCTCTCA	CCTCCCACAC	TCACCCACCC
252	1 GAAGAGTTGG	GGGCCTGGCG	TGGGGGATGG	AGGGAGCCCC	GAGGCTCCCC	ACCCCCCACC
258	1 TCACAGCTTT	* TTTCCCTCC	AGAGGGAIGG	AUTTCCCACCT	CACCCCCACC	AGGGGCCACC
264	1 TTCCCTGCCC	' ACCCTGGCCA	TCACTCCACC	CCCACTCCCA	CCTCTACACC	ACAACCIGGA
	1 GGAGTGGGCT					
	1 ACTGGTCGGG					
282	1 GCTGCGAGCG	CACCEACECE	CCTACCTCCC	CTATCCCCAG	CTCCCAGGTG	TGCTGACAAG
288	1 CTCTTCCCTC	AACCIACIGI	ACCCCCACCO	CCCCACGCCCC	TGGCTGCGCC	GGGCAGGTGG
200	1 CTCTTCCCTG	CTCCACCTCC	AGCCCGAGCT	GGGCACCCTG	CAGGCCCGAC	TGGACCGGCT
300	1 GCTGCGCCGG	CIGCAGCICC	TGGTATGTCC	TGGCCCCAAG	ACCTGACACC	CCAGACCCCC
	1 ACCCCTGGCC					
212	1 GCAACAGCCC	CGCTCTGAGA	CCCTGACACC	CTAACAGCCC	GCTCTGAGAC	CCTGACACCG
312	1 TAACAGCCCC	GCTCTGAGAC	CCTGACCCTA	ACAGTCCTGC	TCTGAGACCC	TGACCCTGCA
310	1 GTCCCAAGAT	CCTGTGGCCC	TGAGACCCTG	AGGCCCTAGA	CCCCCAAATC	CTGCCCAGAA
324.	1 ACTTCAAATT	CTCACCCAAG	ACCCTGAGAC	TCCATCATCC	ATGACCTCAA	AGTCCCCAGA
330.	1 TCCCAGCCCC	TAAGACCCAA	GACCCCATCC	TGAAGCCCAA	AGCCTTGAGA	ATTCAAATCC
340	l TCACCTCAAG	ACTTGGAGAC	CCTGGCCCCA	TGACATTGAA	AACCATGGAC	CTGGCCAGGC
342.	1 GTGGTGGCTC	ACGCCTGTAA	TCCCAGCACT	TTGGGAGGCC	GAGGCAAGTG	GATCACCTGA
	L GGTCGGGAGT					
354.	L AAAATTAGCC	AGGCGTGGTG	GTGCATGCCT	GTAATCCCAG	CTACTTGGGA	GGCTGAGGCA
360.	l GGAGAATCGC	TTGAACCTGG	GAGGCGGAGG	TTGCAGTGAG	CCGAGATCGC	ACCATTACAC
	LTCCAGCCTGG					
	L AAGAAGGAAA					
3/8	L TCCTGACATC	TTAAAGATCC	CAGGCCCTAA	GATACAAGAC	CTTGACCCAA	AGCCAGCCTT
384	GGGACCCTGG	CTGTACAAAC	CCAAGACCTC	CAGGACCTAG	ACCCCGAGCC	CTGAGGCCCT
390.	ATGTCTCACT	CCCAACATCG	AAAACCCTGA	CACCTCAGAT	CCTGAGCCTG	CGCCTGTACG
3961	ACTCCAAGAC	CCTCACTTCC	AAAGCCAGGC	CCAAAGCCCT	GAGACCAGAA	GACTTCAAAC
402	CCTGGTTCTT	GGGCCTAACT	CCAAAGACCC	TGGATCTCAA	ATTCCAACTT	CTAGCTCTGA
408	GACTCCAGCC	CTCACCCATG	AGTTCCTGAA	CTTGAACCCA	GAGACCCCAT	CTCTAAGACT
414]	TCAGCCTTGA	GATCCAGGGC	CTGACCCTAG	ACTCGAGCCC	ACAGACCTCA	GATACTGTCT
4201	GTAAAACCCC	AGCTCTGGTG	GGGAGCAGTG	GCTCACTCCT	GTAATCCCAA	GGCAGGGGAG
4261	GCCAAGGCAG	AAGGACCTCT	TGAGGCCATG	AGTTTGAGAC	AGCCTGGGCA	GCATAGCAAG
4321	ACTCTGTTTC	TTAATTATTA	TTATTATTAT	TATTTTTGG	AGACAGAGTC	TCGCGCTCTG
4381	TTGCCCAGGC	TAGAGTGCAA	TGGTGCCATT	TCGGCTTGCT	GGAACCTCCG	CCTCCTGGGC
4441	. TCAAGCGATT	CTCCTGCCTC	AGCCTCCTGA	GTAGCTGGGA	CTTCAGGTGC	ACACTGCCAC
4501	ACCCGGATAA	TTTTTTTGTA	TTTTAGTAGA	CACAGGGTTT	CACCGTGTTG	CCCAGGCTGG
4561	TCACAAACTC	CTGAGCTCAG	GCCATCCGCC	CGCCTCGGCC	TCCCAAAGCG	CTGGGATAAC
4621	. AGGCGTGACG	CCGCGCCTGG	CTTCTTAATT	GTTCTAACAG	CAGCGACAAC	AACAAAAACC
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4741	ACCGAGATGC	CAGCCCTGAC	TCCACAGACT	TCACCCCAA	CCCCCACACT	CAGCTCTGGA
4801	AGCCCGTCCT	GACTCCAGCC	TCCATTTTCG	GAACCCCACA	GCCTGAAGAG	CTCCCGGCCT
4861	AAACACTTCA	CCCCACGCGC	CACAGTCCCC	CTGTGAATAT	GCAGCCCCGA	TTCAGCTGCA
4921	GCTCCACAGC	ACCCCTGCCC	TGCACCCCCG	CTGCACCCCC	TACCTGTGAC	TCACCTCTCT
4981	CCTCTCCCCA	CAGATGTCCC	GCCTGGCCCT	GCCCCAGCCA	CCCCGGACC	CGCCGGCGCC
5041	CCCGCTGGCG	CCCCCTCCT	CAGCCTGGGG	GGGCATCAGG	GCCGCCCACG	CCATCCTGGG
5101	GGGGCTGCAC	CTGACACTTG	ACTGGGCCGT	GAGGGGACTG	CTGCTGCTGA	AGACTCGGCT
5161	GTGACCCGGG	GCCCAAAGCC	ACCACCGTCC	TTCCAAAGCC	AGATCTTATT	TATTTATTTA
5221	TTTCAGTACT	GGGGGCGAAA	CAGCCAGGTG	ATCCCCCCGC	CATTATCTCC	CCCTAGTTAG
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5281 AGACAGTCCT TCCGTGAGGC CTGGGGGGCA TCTGTGCCTT ATTTATACTT ATTTATTTCA
5341 GGAGCAGGGG TGGGAGGCAG GTGGACTCCT GGGTCCCCGA GGAGGAGGGG ACTGGGGTCC
5401 CGGATTCTTG GGTCTCCAAG AAGTCTGTCC ACAGACTTCT GCCCTGGCTC TTCCCCATCT
5521 ACGGAGGGGA AAGGGAAGCC TGGGTTTTTG TACAAAAATG TGAGAAACCT TTGTGAGACA
5581 GAGAACAGGG AATTAAATGT GTCATACATA TCCACTTGAG GGCGATTTGT CTGAGAGCTG
5641 GGGCTGGATG CTTGGGTAAC TGGGGCAGGG CAGGTGGAGG GGAGACCTCC ATTCAGGTGG
5701 AGGTCCCGAG TGGGCGGGGC AGCGACTGGG AGATGGGTCG GTCACCCAGA CAGCTCTGTG
5761 GAGGCAGGGT CTGAGCCTTG CCTGGGGCCC CGCACTGCAT AGGGCCGTTT GTTTGTTTTT
5821 TGAGATGGAG TCTCGCTCTG TTGCCTAGGC TGGAGTGCAG TGAGGCAATC TAAGGTCACT
5881 GCAACCTCCA CCTCCCGGGT TCAAGCAATT CTCCTGCCTC AGCCTCCCGA TTAGCTGGGA
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6061 GCCTCGGCCT CCCAAAGTGC TGGGATTACA GGTGTGAGCC ACCACACCTG ACCCATAGGT
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6301 CACCCAGCCG CCCGGAGCAG GGACTGTCAT TCAGGGAGGC TAAGGAGAGA GGCTTGCTTG
6361 GGATATAGAA AGATATCCTG ACATTGGCCA GGCATGGTGG CTCACGCCTG TAATCCTGGC
6421 ACTTTGGGAG GACGAAGCGA GTGGATCACT GAAGTCCAAG AGTTTGAGAC CGGCCTGCGA
6481 GACATGGCAA AACCCTGTCT CAAAAAAGAA AGAATGATGT CCTGACATGA AACAGCAGGC
6541 TACAAAACCA CTGCATGCTG TGATCCCAAT TTTGTGTTTT TCTTTCTATA TATGGATTAA
6601 AACAAAATC CTAAAGGGAA ATACGCCAAA ATGTTGACAA TGACTGTCTC CAGGTCAAAG
6661 GAGAGAGGTG GGATTGTGGG TGACTTTTAA TGTGTATGAT TGTCTGTATT TTACAGAATT
6721 TCTGCCATGA CTGTGTATTT TGCATGACAC ATTTTAAAAA TAATAAACAC TATTTTTAGA
6781 ATAACAGAAT ATCAGCCTCC TCCTCTCCAA AAATAAGCCC TCAGGAGGGG ACAAAGTTGA
6841 CCGCTGATTG AGCCTGTCAG GGCTGTGCAC
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- (2) INFORMATION FOR SEQ ID NO:2523:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 8055 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2523:
- 1 GCTCAGGGCA CATGCCTCCC CTCCCCAGGC CGCGGCCCAG CTGACCCTCG GGGCTCCCCC 61 GGCAGCGGAC AGGGAAGGGT TAAAGGCCCC CGGCTCCCTG CCCCCTGCCC TGGGGAACCC 121 CTGGCCCTGT GGGGACATGA ACTGTGTTTG CCGCCTGGTC CTGGTCGTGC TGAGCCTGTG 181 GCCAGATACA GCTGTCGCCC CTGGGCCACC ACCTGGCCCC CCTCGAGTTT CCCCAGACCC 241 TCGGGCCGAG CTGGACAGCA CCGTGCTCCT GACCCGCTCT CTCCTGGCGG ACACGCGGCA 301 GCTGGCTGCA CAGCTGAGGG ACAAATTCCC AGCTGACGGG GACCACAACC TGGATTCCCT 361 GCCCACCCTG GCCATGAGTG CGGGGGCACT GGGAGCTCTA CAGCTCCCAG GTGTGCTGAC 421 AAGGCTGCGA GCGGACCTAC TGTCCTACCT GCGGCACGTG CAGTGGCTGC GCCGGGCAGG 481 TGGCTCTTCC CTGAAGACCC TGGAGCCCGA GCTGGGCACC CTGCAGGCCC GACTGGACCG 541 GCTGCTGCGC CGGCTGCAGC TCCTGATGTC CCGCCTGGCC CTGCCCCAGC CACCCCCGGA 601 CCCGCCGGCG CCCCCGCTGG CGCCCCCCTC CTCAGCCTGG GGGGGCATCA GGGCCGCCCA 661 CGCCATCCTG GGGGGGCTGC ACCTGACACT TGACTGGGCC GTGAGGGGAC TGCTGCTGCT 721 GAAGACTCGG CTGTGACCCG GGGCCCAAAG CCACCACCGT CCTTCCAAAG CCAGATCTTA 781 TTTATTTATT TATTTCAGTA CTGGGGGCGA AACAGCCAGG TGATCCCCCC GCCATTATCT 841 CCCCCTAGTT AGAGACAGTC CTTCCGTGAG GCCTGGGGGA CATCTGTGCC TTATTTATAC 901 TTATTTATTT CAGGAGCAGG GGTGGGAGGC AGGTGGACTC CTGGGTCCCC GAGGAGGAGG 961 GGACTGGGGT CCCGGATTCT TGGGTCTCCA AGAAGTCTGT CCACAGACTT CTGCCCTGGC 1021 TCTTCCCCAT CTAGGCCTGG GCAGGAACAT ATATTATTTA TTTAAGCAAT TACTTTTCAT 1081 GTTGGGGTGG GGACGGAGGG GAAAGGGAAG CCTGGGTTTT TGTACAAAAA TGTGAGAAAC 1141 CTTTGTGAGA CAGAGAACAG GGAATTAAAT GTGTCATACA TATCC 1 CAGCTGCGGC ATCCTCTGTC TCAGAGTCTT GGTGTCTCTG TTCCTTTCCC CTCGGGGTCT 61 CCCTGGGTCT CCCCAAGTCC CTCCTGCTGT CTTCCTCCCG CTCTCTGATC TCTGACTCCC 121 AGAACCTCTC CCTCTGTCTC CAGGGCTGCC CCTCTGATCC TCTTTGCTTC TCTGGTGTGT 181 CTCTCTGGCT GCCTCCATCT CTGTGGATCT CCGTCTCCCT GTCTCTGTCT CAGTCTGTCC 241 TTCACTCTGT GTGTGTGTG GTCTCTCTCT CTCTCTCCC TTCCCTTCCA CTCCCTCTTC 301 CTCCTGCCTC CACCTCTCCA GGCCCCTGTC TTGTCCCTCC GTCCGGCCTT TCTCTGCCTT 361 TCCGTCCTCC TGCCTCCCCA TCTCTCTCTG CTAGTCCTGT CCAGCCGGAC CCCCACCCAC

421	AGTCGGGCCC	CAGCGCTTGA	GCCTGAGTGT	CTGCTCCGGC	CCGTGGAGGT	GGAGGGAGGG
481	GACGCCAATG	ACCTCACCAG	CCCCTCTCCG	ACCACCCCC	CCTTTCCCTT	TTCAACTTTT
541	CCAACTTTTC	CTTCCGTGCC	CTCCTCCGAG	CGCGGCGGCG	TGAGCCCTGC	AAGGCAGCCG
601	CTCCGTCTGA	ATGGAAAAGG	CAGGCAGGGA	GGGTGAGTCA	GGATGTGTCA	GGCCGGCCCT
		CTGCCCCCCG		-		
		CACTGCCGCG				
		TGACCCTCGG				
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		AGGGTGGAGG				
		CCCGCTGAGT				
		GAGACAGGAG				
		AGCCAATCAG				
		GAGACCGAGC				
		CCCAGGCCCC				
		CCGGAGGGAA				
1321		AGCCGGGGGG				
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		CGAGGCGCGG				
		CCGGGGTGGG				
		CCCGCCGCCA				
		CCAGGTGCGC				
		AAGGGGTCTC				
		TTCCCCTGCT				
		GTGCCTCCCC				
		GACGCCCGGG				
		AGCCCGCCTG				
		CTCCATCCTC				
		TCCAGACCCC				
		TCAGACCCAG				
		AGGCCCTCCT				
		GTGTTTGCCG				
		GGCCACCACC				
		TGCTCCTGAC				
		AGACTGGGCT				
		GCAGCCACTT				
		GGGCCTGGCG				
2581		TTTCCCTGCC				
		ACCCTGGCCA				
		GGGGACAAGG				
		TGTTCTCTGA				
		GACCTACTGT				
		AAGACCCTGG				
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		CCAAAATCCT				
		CGCTCTGAGA				
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4261 GCCAAGGCAG AAGGACCTCT TGAGGCCATG AGTTTGAGAC AGCCTGGGCA GCATAGCAAG
4321 ACTCTGTTTC TTAATTATTA TTATTATTAT TATTTTTTGG AGACAGAGTC TCGCGCTCTG
4381 TTGCCCAGGC TAGAGTGCAA TGGTGCCATT TCGGCTTGCT GGAACCTCCG CCTCCTGGGC
4441 TCAAGCGATT CTCCTGCCTC AGCCTCCTGA GTAGCTGGGA CTTCAGGTGC ACACTGCCAC
4501 ACCCGGATAA TTTTTTGTA TTTTAGTAGA CACAGGGTTT CACCGTGTTG CCCAGGCTGG
4561 TCACAAACTC CTGAGCTCAG GCCATCCGCC CGCCTCGGCC TCCCAAAGCG CTGGGATAAC
4621 AGGCGTGACG CCGCGCCTGG CTTCTTAATT GTTCTAACAG CAGCGACAAC AACAAAAACC
4681 CAGCTCTGAG ATTCCAGCCC CGGCGACTCT AACAGTCCCA GGCCCGATCC CTCACCTAGA
4741 ACCGAGATGC CAGCCCTGAC TCCACAGACT TCACCCCCAA CCCCCACACT CAGCTCTGGA
4801 AGCCCGTCCT GACTCCAGCC TCCATTTTCG GAACCCCACA GCCTGAAGAG CTCCCGGCCT
4861 AAACACTTCA CCCCACGCGC CACAGTCCCC CTGTGAATAT GCAGCCCCGA TTCAGCTGCA
4921 GCTCCACAGC ACCCCTGCCC TGCACCCCG CTGCACCCCC TACCTGTGAC TCACCTCTCT
4981 CCTCTCCCCA CAGATGTCCC GCCTGGCCCT GCCCCAGCCA CCCCCGGACC CGCCGGCGCC
5041 CCCGCTGGCG CCCCCTCT CAGCCTGGGG GGGCATCAGG GCCGCCCACG CCATCCTGGG
5101 GGGGCTGCAC CTGACACTTG ACTGGGCCGT GAGGGGACTG CTGCTGCTGA AGACTCGGCT
5161 GTGACCCGGG GCCCAAAGCC ACCACCGTCC TTCCAAAGCC AGATCTTATT TATTTATTTA
5221 TTTCAGTACT GGGGGCGAAA CAGCCAGGTG ATCCCCCCGC CATTATCTCC CCCTAGTTAG
5281 AGACAGTCCT TCCGTGAGGC CTGGGGGGCA TCTGTGCCTT ATTTATACTT ATTTATTTCA
5341 GGAGCAGGG TGGGAGCAG GTGGACTCCT GGGTCCCCGA GGAGGAGGG ACTGGGGTCC
5401 CGGATTCTTG GGTCTCCAAG AAGTCTGTCC ACAGACTTCT GCCCTGGCTC TTCCCCATCT
5521 ACGGAGGGA AAGGGAAGCC TGGGTTTTTG TACAAAAATG TGAGAAACCT TTGTGAGACA
5581 GAGAACAGGG AATTAAATGT GTCATACATA TCCACTTGAG GGCGATTTGT CTGAGAGCTG
5641 GGGCTGGATG CTTGGGTAAC TGGGGCAGGG CAGGTGGAGG GGAGACCTCC ATTCAGGTGG
5701 AGGTCCCGAG TGGGCGGGC AGCGACTGGG AGATGGGTCG GTCACCCAGA CAGCTCTGTG
5761 GAGGCAGGGT CTGAGCCTTG CCTGGGGCCC CGCACTGCAT AGGGCCGTTT GTTTGTTTTT
5821 TGAGATGGAG TCTCGCTCTG TTGCCTAGGC TGGAGTGCAG TGAGGCAATC TAAGGTCACT
5881 GCAACCTCCA CCTCCCGGGT TCAAGCAATT CTCCTGCCTC AGCCTCCCGA TTAGCTGGGA
5941 TCACAGGTGT GCACCACCAT GCCCAGCTAA TTATTTATTT CTTTTGTATT TTTAGTAGAG
6001 ACAGGGTTTC ACCATGTTGG CCAGGCTGGT TTCGAACTCC TGACCTCAGG TGATCCTCCT
6061 GCCTCGGCCT CCCAAAGTGC TGGGATTACA GGTGTGAGCC ACCACACCTG ACCCATAGGT
6121 CTTCAATAAA TATTTAATGG AAGGTTCCAC AAGTCACCCT GTGATCAACA GTACCCGTAT
6181 GGGACAAAGC TGCAAGGTCA AGATGGTTCA TTATGGCTGT GTTCACCATA GCAAACTGGA
6241 AACAATCTAG ATATCCAACA GTGAGGGTTA AGCAACATGG TGCATCTGTG GATAGAACGC
6301 CACCCAGCCG CCCGGAGCAG GGACTGTCAT TCAGGGAGGC TAAGGAGAGA GGCTTGCTTG
6361 GGATATAGAA AGATATCCTG ACATTGGCCA GGCATGGTGG CTCACGCCTG TAATCCTGGC
6421 ACTTTGGGAG GACGAAGCGA GTGGATCACT GAAGTCCAAG AGTTTGAGAC CGGCCTGCGA
6481 GACATGGCAA AACCCTGTCT CAAAAAGAA AGAATGATGT CCTGACATGA AACAGCAGGC
6541 TACAAAACCA CTGCATGCTG TGATCCCAAT TTTGTGTTTT TCTTTCTATA TATGGATTAA
6601 AACAAAAATC CTAAAGGGAA ATACGCCAAA ATGTTGACAA TGACTGTCTC CAGGTCAAAG
6661 GAGAGAGGTG GGATTGTGGG TGACTTTTAA TGTGTATGAT TGTCTGTATT TTACAGAATT
6721 TCTGCCATGA CTGTGTATTT TGCATGACAC ATTTTAAAAA TAATAAACAC TATTTTTAGA
6781 ATAACAGAAT ATCAGCCTCC TCCTCCAA AAATAAGCCC TCAGGAGGGG ACAAAGTTGA
6841 CCGCTGATTG AGCCTGTCAG GGCTGTGCAC
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## (2) INFORMATION FOR SEQ ID NO:2524:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1696 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2524:
- 1 gctgtagctg gtgagaggaa gtcctagagg ctatggacac tctgctgctg ggatcaccga
- 61 gatgagcagc agctgctcag ggctgagcag ggtcctggtg gccgtggcta cagccctggt
- 121 gtctgcctcc tccccctgcc cccaggcctg gggcccccca ggggtccagt atgggcagcc
- 181 agggaggtcc gtgaagctgt gttgtcctgg agtgactgcc ggggacccag tgtcctggtt
- 241 tcgggatggg gagccaaagc tgctccaggg acctgactct gggctagggc atgaactggt
- 301 cctggcccag gcagacagca ctgatgaggg cacctacatc tgccagaccc tggatggtgc 361 acttgggggc acagtgaccc tgcagctggg ctaccctcca gcccgccctg ttgtctcctg
- 421 ccaagcagcc gactatgaga acttctcttg cacttggagt cccagccaga tcagcggttt
- 403254.1 73999/01905

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481 acccaccege taceteacet cetacaggaa gaagacagte etaggagetg atagecagag
 541 gaggagtcca tccacagggc cctggccatg cccacaggat cccctagggg ctgcccgctg
 601 tgttgtccac ggggctgagt tctggagcca gtaccggatt aatgtgactg aggtgaaccc
 661 actgggtgcc agcacacgcc tgctggatgt gagcttgcag agcatcttgc gccctgaccc
 721 accccagggc ctgcgggtag agtcagtacc aggttacccc cgacgcctgc gagccagctg
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 841 ccgtccggcg cagcatccag cctggtccac ggtggagcca gctggactgg aggaggtgat
 901 cacagatgct gtggctgggc tgccccatgc tgtacgagtc agtgcccggg actttctaga
 961 tgctggcacc tggagcacct ggagcccgga ggcctgggga actccgagca ctgggaccat
1021 accaaaggag ataccagcat ggggccagct acacacgcag ccagaggtgg agcctcaggt
1081 ggacagccct gctcctccaa ggccctccct ccaaccacac cctcggctac ttgatcacag
1141 ggactctgtg gagcaggtag ctgtgctggc gtctttggga atcctttctt tcctgggact
1201 ggtggctggg gccctggcac tggggctctg gctgaggctg agacggggtg ggaaggatgg
1261 atccccaaag cctgggttct tggcctcagt gattccagtg gacaggcgtc caggagctcc
1321 aaacctgtag aggacccagg agggcttcgg cagattccac ctataattct gtcttgctgg
1381 tgtggataga aaccaggcag gacagtagat ccctatggtt ggatctcagc tggaagttct
1441 gtttggagcc catttctgtg agaccctgta tttcaaattt gcagctgaaa ggtgcttgta
1501 cctctgattt caccccagag ttggagttct gctcaaggaa cgtgtgtaat gtgtacatct
1561 gtgtccatgt gtgaccatgt gtctgtgaag gccagggaac atgtattcct ctgcatgcat
1621 gtatgtaggt gcctgggagt gtgtgtggtc cttgctctqq ccctttccct tqcaqqqttq
1681 tgcaggtgtg aataaa
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# (2) INFORMATION FOR SEQ ID NO:2525:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1682 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2525:

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1 ggaagatgag cagcagctgc tcagggctga gcagggtcct ggtggccgtg gctacagccc
  61 tggtgtctgc ctcctccccc tgcccccaqq cctqqqqccc cccaqqqqtc caqtatqqqc
 121 agccaggcag gtccgtgaag ctgtgttgtc ctqqaqtqac tqccqqqqac ccaqtgtcct
 181 ggtttcggga tggggagcca aagctgctcc agggacctga ctctgggcta gggcatgaac
 241 tggtcctggc ccaggcagac agcactgatg agggcaccta catctgccag accctggatg
 301 gtgcacttgg gggcacagtg accetgcage tgggctacce tecagecege cetgttgtet
 361 cctgccaagc agccgactat gagaacttct cttgcacttg gagtcccagc cagatcagcg
 421 gtttacccac ccgctacctc acctcctaca ggaagaagac agtcctagga gctgatagcc
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 601 acccactggg tgccagcaca cgcctgctgg atgtgagctt gcagagcatc ttgcgccctg
 661 acccaccca gggcctgcgg gtagagtcag taccaggtta cccccgacgc ctgcgagcca
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 961 ccataccaaa ggagatacca gcatggggcc agctacacac gcagccagag gtggagcctc
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1261 ctccaaacct gtagaggacc caggagggct tcggcagatt ccacctataa ttctgtcttg
1321 ctggtgtgga tagaaaccag gcaggacagt agatccctat ggttggatct cagctggaag
1381 ttctgtttgg agcccatttc tgtgagaccc tgtatttcaa atttgcagct gaaaggtgct
1441 totacctotg atttcacccc agagttggag ttotgctcaa ggaacgtgtg taatgtgtac
1501 atctgtgtcc atgtgtgacc atgtgtctgt gaggcaggga acatgtattc tctgcatgca
1561 tgtatgtagg tgcctgggga gtgtgtgtgg gtccttggct cttggccttt ccttgcaggg
1621 gttgtgcagg tgtgaataaa gagaataagg aagttcttgg aqattatact caqaaaaaa
1681 aa
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# (2) INFORMATION FOR SEQ ID NO:2526:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 413 base pairs

- (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2526:
- 1 tctgtggagc aggtagctgt gctggcgtct ttgggaatcc tttctttcct gggactggtg 61 gctggggccc tggcactggg gctctggtaa gtgactgcca ttggtccctc agcctctgat
- 121 cctcacacat gctctgatgc ccatagacca cattcatctc cacccttcat gactgcctgc
- 181 tgaacctgtc tgattctgga actacctccc catacctcca tcccctatgc cccacttgat
- 241 tttaactgat tcctctcctg accetttact aataaaccet ttggcggaga ctgagataac
- 301 ccacattgtt ggagagacag ctgcctttct atgccccagg ctgaggctga gacggggtgg
- 361 gaaggatgga tccccaaagc ctgggttctt ggcctcagtg attccagtgg aca
- (2) INFORMATION FOR SEQ ID NO:2527:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3791 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2527:
- 1 gctgtagctg gtgagaggaa gtcctagagg ctatggacac tctgctgctg ggatcaccga 61 gatgagcagc agctgctcag ggctgagcag ggtcctggtg gccgtggcta cagccctggt 121 gtctgcctcc tcccctgcc cccaggcctg gggcccccca ggggtccagt atgggcagcc 181 agggaggtcc gtgaagctgt gttgtcctgg agtgactgcc ggggacccag tgtcctggtt 241 tcgggatggg gagccaaagc tgctccaggg acctgactct gggctagggc atgaactggt 301 cctggcccag gcagacagca ctgatgaggg cacctacatc tgccagaccc tggatggtgc 361 acttgggggc acagtgaccc tgcagctggg ctaccctcca gcccgccctg ttgtctcctg 421 ccaagcagcc gactatgaga acttctcttg cacttggagt cccagccaga tcagcggttt 481 acccaccgc tacctcacct cctacaggaa gaagacagtc ctaggagctg atagccagag 541 gaggagtcca tccacagggc cctggccatg cccacaggat cccctagggg ctgcccgctg 601 tgttgtccac ggggctgagt tctggagcca gtaccggatt aatgtgactg aggtgaaccc 661 actgggtgcc agcacacgcc tgctggatgt gagcttgcag agcatcttgc gccctgaccc 721 accccagggc ctgcgggtag agtcagtacc aggttacccc cgacgcctgc gagccagctg 781 gacataccct gcctcctggc cgtgccagcc ccacttcctg ctcaagttcc gtttgcagta 841 ccgtccggcg cagcatccag cctggtccac ggtggagcca gctggactgg aggaggtgat 901 cacagatgct gtggctgggc tgccccatgc tgtacgagtc agtgcccggg actttctaga 961 tgctggcacc tggagcacct ggagcccgga ggcctgggga actccgagca ctgggaccat 1021 accaaaggag ataccagcat ggggccagct acacacgcag ccagaggtgg agcctcaggt 1081 ggacagecet geteeteeaa ggeeeteeet eeaaceaea eeteggetae ttgateaeag 1141 ggactctgtg gagcaggtag ctgtgctggc gtctttggga atcctttctt tcctgggact 1201 ggtggctggg gccctggcac tggggctctg gctgaggctg agacggggtg ggaaggatgg 1261 atccccaaag cctgggttct tggcctcagt gattccagtg gacaggcgtc caggagctcc 1321 aaacctgtag aggacccagg agggcttcgg cagattccac ctataattct gtcttgctgg 1381 tgtggataga aaccaggcag gacagtagat ccctatggtt ggatctcagc tggaagttct 1441 gtttggagcc catttctgtg agaccctgta tttcaaattt gcagctgaaa ggtgcttgta 1501 cctctgattt caccccagag ttggagttct gctcaaggaa cgtgtgtaat gtgtacatct 1561 gtgtccatgt gtgaccatgt gtctgtgaag gccagggaac atgtattcct ctgcatgcat 1621 gtatgtaggt gcctgggagt gtgtgtggtc cttgctctgg ccctttccct tgcagggttg 1681 tgcaggtgtg aataaa 1 ggaagatgag cagcagctgc tcagggctga gcagggtcct ggtggccgtg gctacagccc 61 tggtgtctgc ctcctccccc tgcccccagg cctggggccc cccaggggtc cagtatgggc 121 agccaggcag gtccgtgaag ctgtgttgtc ctggagtgac tgccggggac ccagtgtcct 181 ggtttcggga tggggagcca aagctgctcc agggacctga ctctgggcta gggcatgaac 241 tggtcctggc ccaggcagac agcactgatg agggcaccta catctgccag accetggatg 301 gtgcacttgg gggcacagtg accetgcage tgggctacce tecageeege cetgttgtet 361 cctgccaage agccgactat gagaacttet ettgcaettg gagteccage cagateageg 421 gtttacccac ccgctacctc acctcctaca ggaagaagac agtcctagga gctgatagcc 481 agaggaggag tccatccaca gggccctggc catgcccaca ggatccccta ggggctgccc

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841 tgatcacaga tgctgtggct gggctgcccc atgctgtacg agtcagtgcc cgggactttc
  901 tagatgctgg cacctggagc acctggagcc cggaggcctg gggaactccg agcactggga
  961 ccataccaaa ggagatacca gcatggggcc agctacacac gcagccagag gtggagcctc
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 1681 aa
    1 tctgtggagc aggtagctgt gctggcgtct ttgggaatcc tttctttcct gggactggtg
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 181 tgaacctgtc tgattctgga actacctccc catacctcca tcccctatgc cccacttgat
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 301 ccacattgtt ggagagacag ctgcctttct atgccccagg ctgaggctga gacggggtgg
 361 gaaggatgga tccccaaagc ctgggttctt ggcctcagtg attccagtgg aca
(2) INFORMATION FOR SEQ ID NO:2528
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 940 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2528:
   1 cttcaactca ataagcattt taagtattct aatcttagta tttctctagc tgacatgtaa
  61 gaagcaatct atcttattgt atgcaattag ctcattgtgt ggataaaaag gtaaaaccat
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(2) INFORMATION FOR SEQ ID NO: 2529:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 9339 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2529:
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901	accaagctgg	acagagaatg	actttgacga	gttgagagaa	gaaggcttca	gatgatcaaa
961	ctactctgag	ctaaaggagg	aagttcgaac	ccacggcaaa	gaagttaaaa	accttgaaaa
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	_	gacacataat				_
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		ctgaaggaag				
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		gactcccaca				_
		atgagacaga				_
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		ccacaccaca	-	-		
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		ctcaggatta	-	-		
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		aacgagaaca				
		ggaaaattta				
		ctaacatcac	-			
		aggcaagaaa				
		ttcaaaaaat	_			-
		cactagcaaa				
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		ctctatgcaa	-	_		_
		ctcccaagac				
		attgaggcaa				
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		tcaatagaaa			_	
		ccaaagcctg				
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	-	cttatccacc				
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		caataaatta				
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		aagacaggga				
		gcaatcaggc				
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		cacaagcatt				
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4321	ggccatacto	, cccaaggtaa	ttttatagat	tcaatgccat	ccccatcaag	ctaccaatga
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4501	tcaaactata	ctacaaggct	acagtaacca	aaacagcatg	gtactggtac	caaagcagag
4561	atatagacca	atggaacaaa	acagtgccct	cagaaataat	actocatato	tacaaccatc
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4681	gatactagaa	aaactggcta	gccatatgta	gaeggggaa	attagataga	tteettaeae
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5641	tactttgcag	ccataaaaaa	ggatgagttc	atotccttto	tagggacatg	gatgaagetg
5701	gaaaccatca	ttctcggcaa	actatcgcaa	ggtcaaaaaa	ccaaacaccg	catottetea
5761	ctcataggtg	gtaactgaac	aatgagaaca	catggtcaca	adaaaaaaaa	catcacacac
5821	tagaacctat	tataaaataa	ggggagtggg	canggatage	attaggaggag	atacctaatc
5881	ttaaatgacg	atttaatggg	tgcagcacac	caacatooca	catatataca	tatataaaa
5941	acccacacgt	tatacacata	tactctaaaa	cttaaagtat	aattaaaata	catytaacaa
6001	gtaaaaaaga	aatcctaacq	atactcaaat	tattattta	atanaata	adidaddada
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6121	atteatecta	ctctatcta	ccyacayayı	gaagtgagat	ggaatagtgg	gcacaatete
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6781	aagtcagctt	tgatggagtg	acaatatgtg	caacacagtg	agcaatctct	taggtaggca
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7021	tactgccaca	accagaaaag	ccagctgatg	tgtcagacgt	gagaaaqcqa	aagtatgtca
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7201	agggtcccag	aagtatagcc	atatattgcc	ccattctcta	atggaaatag	ccagagaaat
7261	agaaatatca	agactggaga	acatcaaata	cctcattgga	aaagccccca	cataggaaaa
7321	tgtataaact	tgaattette	cattctggaa	agataaagac	ctgagtgatg	atactaggaaa
7381	tagacactga	aactctttag	agaagcaaaa	caagtataa	aaaactataa	tttattata
7441	taaataaata	acacacagac	taccaaatag	cctacccctt	ataacaccat	taatataat
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7001	cctatatcca	cctcccttgg	ggcagcaatc	acctatcacc	caggactaca	cttgtgtatg
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## (2) INFORMATION FOR SEQ ID NO:2530:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5737 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2530:

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2041	. aaagatgaga	ı ttatgtgcat	: aatttagggg	gtggtagaat	tcatggaaat	ctaagtttga
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3301	ggtatttgta	aagtacccat	gcatgtaatt	agcctacatt	ttaagtacac	tgtgaacatg
3361	aatcatttct	aatgttaaat	gattaactgg	ggagtataag	ctactgagtt	tgcacctacc
3421	atctactaat	ggacaagcct	catcccaaac	tccatcacct	ttcatattaa	cacaaaactg
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3661	aaaactggag	ccattaaaat	ggccagtgga	ctaaacaaac	aacaatcttt	ttagaggcaa
3721	tccccacttt	cagaatctta	agtatttta	aatgcacagg	aaqcataaaa	tatgcaaggg
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3841	aaattcatga	gttaataggt	atcctaaata	agcagcataa	gtatagtagt	aaaagacatt
3901	cctaaaagta	actccagttg	tgtccaaatg	aatcacttat	tagtggactg	tttcagttga
3961	attaaaaaaa	tacattgaga	tcaatgtcat	ctagacattg	acagattcag	ttccttatct
4021	atggcaagag	ttttactcta	aaataattaa	catcagaaaa	ctcattctta	actcttgata
4081	caaatttaag	acaaaaccat	gcaaaaatct	gaaaactgtg	tttcaaaagc	caaacacttt
4141	ttaaaataaa	aaatcccaag	atatgacaat	atttaaacaa	ttatgcttaa	gaggatacag
4201	aacactgcaa	cagtttttta	aaagagaata	cttatttaaa	gggaacactc	tatctcacct
4261	gcttttgttc	ccagggtagg	aatcacttca	aatttgaaaa	gctctctttt	aaatctcact
4321	atatatcaaa	atatttcctc	cttagcttat	caactagagg	aagcgtttaa	atagctcctt
4381	tcagcagaga	agcctaattt	ctaaaaagcc	agtccacaga	acaaaatttc	taatgtttaa
4441	acttttaaaa	gttggcaaat	tcacctgcat	tgatactatg	atggggtagg	gataggtgta
4501	agtatttaga	agatgttctt	cacacaaatt	tatcccaaac	ggaagcatgt	cctagcttac
4561	tctagtgtag	ttctgttctg	ctttggggaa	aatataagga	gattcactta	agtagaaaaa
4621	taggagactc	taatcaagat	ttagaaaaga	agaaagtata	atgtgcatat	caattcatac
4681	atttaactta	cacaaatata	ggtgtacatt	cagaggaaaa	gcgatcaagt	ttatttcaca
4/41	tccagcattt	aatatttgtc	tagatctatt	tttatttaaa	tctttatttg	cacccaattt
4801	agggaaaaaa	tttttgtgtt	cattgactga	attaacaaat	gaggaaaatc	tcagcttctg
4861	tgttactatc	atttggtatc	ataacaaaat	atgtaatttt	ggcattcatt	ttgatcattt
4921	caagaaaatg	cgaataatta	atatgtttgg	taagcttgaa	aataaaggca	acaggcctat
4981	aagacttcaa	ttgggaataa	ctgtatataa	ggtaaactac	tctgtacttt	aaaaaattaa
5041	catttttctt	ttatagggat	ctgaaacaac	attcatgtgt	gaatatgctg	atgagacagc
5101	aaccattgta	gaatttctga	acagatggat	taccttttgt	caaagcatca	tctcaacact
5161	gacttgataa	ttaagtgctt	cccacttaaa	acatatcagg	ccttctattt	atttaaatat
5221	ttaaatttta	tatttattgt	tgaatgtatg	gtttgctacc	tattgtaact	attattctta
5281	atcttaaaac	tataaatatg	gatcttttat	gattctttt	gtgccctagg	ggctctaaaa
5341	tggtttcact	tatttatccc	aaaatattta	ttattatgtt	gaatgttaaa	tatagtgcta
5401	tgtagattgg	ttagtaaaac	tatttaataa	atttgataaa	tataaacaag	cctggatatt
5461	tgttattttg	gaaacagcac	agagtaagca	tttaaatatt	tcttagttac	ttgtgtgaac
5521	tgtaggatgg	ttaaaatgct	tacaaaagtc	actctttctc	tgaagaaata	tgtagaacag
						=

5581 agatgtagac ttctcaaaag cccttgcttt gtcctttaa gggctgatca gacccttagt 5641 tctggcatct cttagcagat tatattttcc ttcttcttaa aatgccaaac acaaacactc 5701 ttgaaactct tcatagattt ggtgtggcta tgaattc

## (2) INFORMATION FOR SEQ ID NO:2531:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5561 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2531:

1 cgaattcccc tatcacctaa gtgtgggcta atgtaacaaa gagggatttc acctacatcc 61 attcagtcag tctttggggg tttaaagaaa ttccaaagag tcatcagaag aggaaaaatg 121 aaggtaatgt tttttcagac tggtaaagtc tttgaaaata tgtgtaatat gtaaaacatt 181 ttgacacccc cataatattt ttccagaatt aacagtataa attgcatctc ttgttcaaga 241 gttccctatc actctttaat cactactcac agtaacctca actcctgcca caatgtacag 301 gatgcaactc ctgtcttgca ttgcactaag tcttgcactt gtcacaaaca gtgcacctac 361 ttcaagttct acaaagaaaa cacagctaca actggagcat ttactgctgg atttacagat 421 gattttgaat ggaattaatg taagtatatt tcctttctta ctaaaattat tacatttagt 481 aatctagctg gagatcattt cttaataaca atgcattata ctttcttaga attacaagaa 541 tcccaaactc accaggatgc tcacatttaa gttttacatg cccaagaagg taagtacaat 601 attttatgtt caatttctgt tttaataaaa ttcaaagtaa tatgaaaatt tgcacagatg 661 ggactaatag cagctcatct gaggtaaaga gtaactttaa tttgtttttt tgaaaaccca 721 agtttgataa tgaagcctct attaaaacag ttttacctat atttttaata tatatttgtg 781 tgttggtggg ggtgggagaa aacataaaaa taatattctc tcactttatc gataagacaa 841 ttctaaacaa aaatgttcat ttatggtttc atttaaaaat gtaaaactct aaaatatttg 901 attatgtcat tttagtatgt aaaataccaa aatctatttc caaggagccc acttttaaaa 961 atcttttctt gttttaggaa aggtttctaa gtgagaggca gcataacact aatagcacag 1021 agtctggggc cagatatctg aagtgaaatc tcagctctgc catgtcctag ctttcatgat 1081 ctttggcaaa ttacctactc tgtttgtgat tcagtttcat gtctacttaa atgaataact 1141 gtatatactt aatatggctt tgtgagaatt agtaagtaaa tgtaaagcac tcagaaccgt 1201 gtctggcata aggtaaatac catacaagca ttagctatta ttagtagtat taaagataaa 1261 attttcactg agaaatacaa agtaaaattt tggactttat ctttttacca atagaacttg 1321 agatttataa tgctatatga cttattttcc aagattaaaa gcttcattag gttgtttttg 1381 gattcagata gagcataagc ataatcatcc aagctcctag gctacattag gtgtgtaaag 1441 ctacctagta gctgtgccag ttaagagaga atgaacaaaa tctggtgcca gaaagagctt 1501 gtgccagggt gaatccaagc ccagaaaata ataggattta aggggacaca gatgcaatcc 1561 cattgactca aattctatta attcaagaga aatctgcttc taactaccct tctgaaagat 1621 gtaaaggaga cagcttacag atgttactct agtttaatca gagccacata atgcaactcc 1681 agcaacataa agatactaga tgctgttttc tgaagaaaat ttctccacat tgttcatgcc 1741 aaaaacttaa acccgaattt gtagaatttg tagtggtgaa ttgaaagcgc aatagatgga 1801 catatcaggg gattggtatt gtcttgacct acctttccca ctaaagagtg ttagaaagat 1861 gagattatgt gcataattta ggggtggtag aattcatgga aatctaagtt tgaaaccaaa 1921 agtaatgata aactetatte atttgtteat ttaaceetea ttgcacattt acaaaagatt 1981 ttagaaacta ataaaaatat ttgattccaa ggatgctatg ttaatgctat aatgagaaag 2041 aaatgaaatc taattctggc tctacctact tatgtggtca aattctgaga tttagtgtgc 2101 ttatttataa agtggagatg atacttcact gcctacttca aaagatgact gtgagaagta 2161 aatgggccta ttttggagaa aattctttta aattgtaata taccatagaa atatgaaata 2221 ttatatataa tatagaatca agaggcctgt ccaaaagtcc tcccaaagta ttataatctt 2281 ttatttcact gggacaaaca tttttaaaat gcatcttaat gtagtgattg tagaaaagta 2341 aaaatttaag acatatttaa aaatgtgtct tgctcaaggc tatattgaga gccactacta 2401 catgattatt gttacctagt gtaaaatgtt gggattgtga tagatggcat ccaagagttc 2461 cttctctctc aacattctgt gattcttaac tcttagacta tcaaatatta taatcataga 2521 atgtgatttt tatgccttcc acattctaat ctcatctggt tctaatgatt ttctatgcag 2581 attggaaaag taatcagcct acatctgtaa taggcattta gatgcagaaa gtctaacatt 2641 ttgcaaagcc aaattaagct aaaaccagtg agtcaactat cacttaacgc tagtcatagg 2701 tacttgagcc ctagtttttc cagttttata atgtaaactc tactggtcca tctttacagt 2761 gacattgaga acagagagaa tggtaaaaac tacatactgc tactccaaat aaaataaatt 2821 ggaaattaat ttctgattct gacctctatg taaactgagc tgatgataat tattattcta 2881 ggccacagaa ctgaaacatc ttcaqtqtct agaaqaagaa ctcaaacctc tqqaqqaaqt 2941 gctaaattta gctcaaagca aaaactttca cttaagaccc agggacttaa tcagcaatat 3001 caacgtaata gttctggaac taaaggtaag gcattacttt atttgctctc ctggaaataa

3061 aaaaaaaaa gtaggggaa aagtaccaca ttttaaagtg acataacatt tttggtattt 3121 gtaaagtacc catgcatgta attagcctac attttaagta cactgtgaac atgaatcatt 3181 tctaatgtta aatgattaac tggggagtat aagctactga gtttgcacct accatctact 3241 aatggacaag cctcatccca aactccatca cctttcatat taacacaaaa ctgggagtga 3301 gagagaagtg actgagttga gtttcacaga aacgcaggca agattttatt atatatttt 3361 caagtteett cacagateat ttactggaat agecaatact gagttacetg aaaggetttt 3421 caaatggtgt ttccttatca tttgatggaa ggactaccca taagagattt gtcttaaaaa 3481 aaaaaactgg agccattaaa atggccagtg gactaaacaa acaacaatct ttttagaggc 3541 aatcccactt tcaqaatctt aagtattttt aaatgcacag gaagcataaa atatgcaagg 3601 gactcaggtg atgtaaaaga gattcacttt tgtcttttta tatcccgtct cctaaggtat 3661 aaaattcatg agttaatagg tatcctaaat aagcagcata agtatagtag taaaagacat 3721 tootaaaagt aactocagtt gtgtocaaat gaatcactta ttagtggact gtttcagttg 3781 aattaaaaaa atacattgag atcaatgtca tctagacatt gacagattca gttccttatc 3841 tatggcaaga gttttactct aaaataatta acatcagaaa actcattctt aactcttgat 3901 acaaatttaa gacaaaacca tgcaaaaatc tgaaaactgt gtttcaaaag ccaaacactt 3961 tttaaaataa aaaaatccca agatatgaca atatttaaac aattatgctt aagaggatac 4021 agaacactgc aacagttttt taaaagagaa tacttattta aagggaacac tctatctcac 4081 ctgcttttgt tcccagggta ggaatcactt caaatttgaa aagctctctt ttaaatctca 4141 ctatatatca aaatagttgc ctccttagct tatcaactag aggaagcgtt taaatagctc 4201 ctttcagcag agaagcctaa tttctaaaaa gccagtccac agaacaaaat ttctaatgtt 4261 taaagctttt aaaagttggc aaattcacct gcattgatac tatgatgggg tagggatagg 4321 tgtaagtatt tatgaagatg ttcattcaca caaatttacc caaacaggaa gcatgtccta 4381 cctagcttac tctagtgtag ctcqtttcgt ctttggggaa aatataagga gattcactta 4441 agtagaaaaa taggagactc taatcaagat ttagaaaaga agaaagtata atgtgcatat 4501 caattcatac atttaactta cacaaatata qqtqtacatt caqaqqaaaa qcqatcaaqt 4561 ttatttcaca tccaqcattt aatatttqtc taqatctatt tttatttaaa tctttatttq 4621 cacccaattt agggaaaaaa tttttgtgtt cattgactga attaacaaat gaggaaaatc 4681 teagettetg tgttactate atttggtate ataacaaaat acgeaatttt ggeatteatt 4741 ttgatcattt caagaaaatg tgaataatta atatgtttgg taagcttgaa aataaaggca 4801 acaggectat aagaetteaa ttgggaataa etgtatataa ggtaaactae tetgtaettt 4861 aaaaaattaa catttttctt ttatagggat ctgaaacaac attcatgtgt gaatatgctg 4921 atgagacagc aaccattgta gaatttctga acagatggat taccttttgt caaagcatca 4981 totcaacact gacttgataa ttaagtgott cocacttaaa acatatcagg cottotattt 5041 atttaaatat ttaaatttta tatttattgt tgaatgtatg gtttgctacc tattgtaact 5101 attattetta atettaaaae tataaatatg gatettttat gattetttt gtaageeeta 5161 ggggctctaa aatggtttca cttatttatc ccaaaatatt tattattatg ttgaatgtta 5221 aatatagtat ctatgtagat tggttagtaa aactatttaa taaatttgat aaatataaac 5281 aageetggat atttgttatt ttggaaacag cacagagtaa geatttaaat atttettagt 5341 tacttgtgtg aactgtagga tggttaaaat gcttacaaaa gtcactcttt ctctgaagaa 5401 atatgtagaa cagagatgta gacttctcaa aagcccttgc tttgtccttt caagggctga 5461 tcagaccett agttetggea tetettagea gattatattt teettettet taaaatgeea 5521 aacacaaaca ctcttgaaac tcttcataga tttggtgtgg c

# (2) INFORMATION FOR SEQ ID NO:2532:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 844 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2532:

1 ccccataata tttttccaga attaacagta taaattgcat ctcttgttca agagttcct 61 atcactctc ttaatcacta ctcacagtaa cctcaactcc tgccacaatg tacaggatgc 121 aactcctgtc ttgcattgca ctaagtcttg cacttgtcac aaacagtgca cctacttcaa 181 gttctacaaa gaaaacacag ctacaactgg agcatttact gctggattta cagatgattt 241 tgaatggaat taataattac aagaatccca aactcaccag gatgctcaca tttaagtttt 301 acatgccaa gaaggccaca gaactgaaac atcttcagtg tctagaagaa gaactcaaac 361 ctctggagga agtgctaaat ttagctcaaa gcaaaaactt tcacttaaga cccagggact 421 taatcagcaa tatcaacgta atagttctgg aactaaaggg atctgaaaca acattcatgt 481 gtgaatatgc tgatgagaca gcaaccattg tagaatttct gaacagatgg attaccttt 541 gtcaaagcat catctcaaca ctgacttgat aattaagtgc ttcccactta aaacatatca 601 ggccttctat ttattaaat atttaaattt tatattatt gttgaatgta tggtttgcta 661 cctattgtaa ctattattct taatcttaaa actataaata tggatcttt atgattctt

721 ttgtaagccc taggggctct aaaatggttt cacttattta tcccaaaata tttatta 781 tgttgaatgt taaatatagt atctatgtag attggttagt aaaactattt aataaatttg 841 ataa

## (2) INFORMATION FOR SEQ ID NO:2533:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22421 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2533:

1 cttcaactca ataagcattt taagtattct aatcttagta tttctctagc tgacatgtaa 61 gaagcaatct atcttattgt atgcaattag ctcattgtgt ggataaaaag gtaaaaccat 121 totgaaacag gaaaccaata cacttootgt ttaatcaaca aatotaaaca tttattottt 181 tcatctgttt actcttgctc ttgtccacca caatatgcta ttcacatgtt cagtgtagtt 241 ttatgacaaa gaaaattttc tgagttactt ttgtatcccc acccccttaa agaaaggagg 301 aaaaactgtt tcatacagaa ggcgttaatt gcatgaatta gagctatcac ctaagtgtgg 361 gctaatgtaa caaagaggga tttcacctac atccattcag tcagtctttg ggggtttaaa 421 gaaattccaa agagtcatca gaagaggaaa aatgaaggta atgttttttc agacaggtaa 481 agtctttgaa aatatgtgta atatgtaaaa cattttgaca cccccataat atttttccag 541 aattaacagt ataaattgca tetettgtte aagagtteee tateactete tttaateact 601 actcacagta acctcaactc ctgccacaat gtacaggatg caactcctgt cttgcattgc 661 actaagtett geacttgtca caaacagtge acetacttca agttetacaa agaaaacaca 721 gctacaactg gagcatttac ttctggattt acagatgatt ttgaatggaa ttaatgtaag 781 tatatttcct ttcttactaa aattattaca tttagtaatc tagctggaga tcatttctta 841 taacaatgca ttatactttc ttagaattac aagaatccca aactcaccag gatgctcaca 901 tttaagtttt acatgcccaa gaaggtaagt acaatatttt 1 qaattccctt ttcctaqtca aaqaaaqqqq tqacaqacaq cacctqqaaa atcqtqtcac 61 toccaccota atactgogot tttccaatgg tottagcaaa cagcacacca agagattata 121 tecageacet ggeteagagg gteetatgee cacggageet cacteactge tageacagea 181 gtctqaqatc aaactgcaaq gtgqcaqtqa qqctgqqaqa ggggtgtqca ccattgccqa 241 ggcttgagta ggtaaacaaa gcagctggga agctcgaact gggtggagcc cactgcagct 301 caaggaggcc tgcctgcctc tgtagactcc acctccgggg gcagggcata gccaaacaaa 361 aggcagcaga aacctctgca gacttaaatg tccctgtctg acagcttgga agagagtagt 421 ggttctccca gcatgcagct tgagatctga gaatggacag actgcctcct caagtgggtc 481 cctgacccc gagtaaccta actgggaggc accccaagta ggggcagact gacacctcac 541 atggctgggt actcctctqa qaaaaaactt ccaqaggaac qatcaggcag caacatttgc 601 tqttcaccaa tatccactqt tctqcaqcct cctqtqctaa tacccaqqca aatqqqtctq 661 gagaggacct ccagcaagct ccaacagacc tacagctgag ggtcctgact gttagaagga 721 aaactaacaa acagaaagga catccacac aaaaccctat ctgtacggca ccatcatcaa 781 agaccaaagg tagataaaac cacaaagatg gggaaaaaaa cacagcagaa aaactggtaa 841 ctctaaaaat taqaqqqctt ctcctcctc aaaqqaacqc aqctcctcac caqcaatqqa 901 accaagetgg acagagaatg actttgacga gttgagagaa gaaggettca gatgatcaaa 961 ctactctgag ctaaaggagg aagttcgaac ccacggcaaa gaagttaaaa accttgaaaa 1021 aaattagatg aatggctaac tagaataacc aatgcagaga agtccttaaa ggacctgatg 1081 gagctgaaaa ccatggcaca agaactacat gacaaatgca caagcctcag tagctgattc 1141 gatcaactgg aagaaagggt atcagtgatg gaagatcaaa tgaatgaaat gaagcaagaa 1201 gagaagttta gagaaaaaag aaaaaaaaga aatgaacaaa gcctccaaga aatatgggac 1261 tatqtqaaaa qaccaaatct acqtctqatt qqtqtacctq aaaqtqatqq qqaqaatqqa 1321 accaagetgg aaaacactet geaggatatt atceaagaga actteeceaa tetageaagg 1381 caggctgaca ttcaaattca ggaaatacag agaacgccac aaatataatc ctcgagaaga 1441 gcaactccaa gacacataat tgttagattc actaaagttg aaatgaagga aaaaatgtta 1501 agggcagcca gagagaaagg tcagcttacc cacaaaggaa agcccatcag attaacagct 1561 gatctctcgg cagaaactct acaagccaga agagagtggg ggccaatatt caacattctt 1621 aaagaaaaga attttcaacc cagaatttca tatccagcca aactatgctt cataagtgaa 1681 ggagaaataa aatatagaca agtgaacgat gaaagatttt gtcaccacca ggcctgccct 1741 acaagagctc ctgaaggaag cactaaacat ggaaaggaac aaccggtacc agccactgca 1801 aaaacatgcc aaattgtaaa caccattgag gccaggaaga aactgcatca actaacgagc 1861 aaaataacca gctaacatca tcatgacagg atcaaattca cacataacaa tattaacctt 1921 aaatgtaaat aggctaaatg ctccaattaa aagacacaga ctggcaaact ggataaagag 1981 tcaaqaccca tcaqtqtqct qtattcagga aacccatctc acqtqcaqag acacacatag 2041 gctcaaaata aagggatgga ggaagatcta ccaaacaaac ggaaaacaaa aaaaggcagg

2101	ggttgcaatc	ctagtctctg	ataaaacaga	ctttaaacca	acaaagatca	aaagagacac
2161	agaaggccat	tacataatgg	taaagggatc	aattcaacaa	gaagagttaa	ctatcctaaa
2221	tatatatgca	cccaatacag	gagcacctag	attcataaag	caagtcctta	gagacctaca
2281	aagagactta	gactcccaca	caataataat	gggagacttt	aacaccccac	totcaacatt
			aaattaacaa			
			tctacagaac			
			ccgattccaa			
2521	cctcagcaaa	totaaaagaa	cagaaagtac	aacaaactot	ctctcagac	gcaaagcact
2581	caaactaaaa	ctcaggatta	agaaactcac	tananaga	tanataant	acagigcaai
			actgggtaca			
			aagacacaac			
2021	agrucusaga	ggaaaattta	tagcactaaa	tgcccacaag	agaaagcagg	aaagatctaa
2021	aattgacagc	Ctaacatcac	aattaaaaga	actagagaaa	caagagcaaa	cacattcaaa
2001	agctagcaga	aggcaagaaa	taactacaat	cagagcagaa	ctgaaggaga	tagagacata
			caatgaatcc			
3001	attgatagac	cactagcaaa	actaatacag	aagagagaag	aatcaaatag	acacaataaa
3061	aaatgataaa	cgggatatca	ccactgatcc	cacagaaata	caaactacca	tcaaagaata
3121	ctataaacac	ctctatgcaa	ataaactaga	aaatctagaa	gaaatggata	aattcctcga
3181	cacatacacc	ctcccaagac	taaaccagga	agaagctgaa	tctctgaata	gaccaataac
3241	aggctctgaa	attgaggcaa	caattaacac	cttaccaacc	aataaaagtc	caggaccaga
3301	tggattcaca	gccaaattct	accagaggta	caaggaggag	ctggtacgat	tccttctgaa
3361	actattccaa	tcaatagaaa	aagagggaat	cctccctaac	tcattttatg	aggccagcat
3421	catcctgata	ccaaagcctg	gcagagacac	aacaaaaaa	gagaatttca	gaccaatatc
			aaattttaa			
			atgatcaagc			
			aatgtaatcc			
3661	acatgattat	ctcaacagat	gcagaaaagg	cctttgacaa	aattcaacag	cccttcatgc
3721	taaaaactct	caataaatta	ggtactgatg	ggacgtatct	caaaataata	agcgctatct
			atcatactgg			
			tgccctctct			
			aggagaaaga			
3961	ggtcaaattg	tccctgtttg	cagatgacat	gattgtatat	atagaaaacc	ccattgtctc
			tgataagcaa			
4081	gtgcaaaaat	cacaagcatt	cttatacacc	aataacagac	aaacagagag	ccaaatcatg
4141	agtgaactcc	cattcacaat	tgcttcaaag	agaataaaat	acctaggaat	ccaactcaca
4201	agggatgtga	gagacctctt	caaggagaac	tataaaccac	tactcaatga	aatgagagga
4261	tacagataaa	tggaagaaca	ttccatgctc	atgggtagga	agaatcaata	tcataaaat
4321	ggccatactg	cccaaggtaa	ttttatagat	tcaatgccat	ccccatcaac	ctaccaatca
4381	ctttcttcac	agaattggaa	aaaactactt	taaagttcat	atggaaccaa	aaaagaggg
4441	gcattgccaa	gtcaatccta	agccaaaaga	acaaaactaa	acceptaceaa	ctacctgact
4501	tcaaactata	ctacaagget	acagtaacca	aaacagcatg	atactactac	caaccegace
			acagtgccct			
4621	tgatctttga	caaacctgac	aaaaacaagc	aatagaaaaa	ggattgggta	tttaataat
4681	agtactaga	aaactgggta	gccatatgta	aacggggaaa	ggattetta	ttaataaat
4741	cttctacaaa	aattaattoa	agatggatta	gaaagetyaa	tattagacee	cccccacac
4801	aaaccctaga	adecaaecta	ggcaatacca	ttenegacitada	rgitagacci	aaaaccataa
4861	tatctaga	agaaaaccta	atagaaaaaa	anggacat	aggeatggge	aagaacttca
1921	actasagage	ttotagagag	atggcaacaa	tagastasas	ryacaaargg	gtctaattaa
4921	accaaagage	atttt	caaaagaaac	taccatcaga	grgaagagge	aacctacaga
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2/UI tacttgagc	c ctagtttttc	: cagttttata	atgtaaactc	tactggtcca	tetttacagt
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3901 acaaatttaa	gacaaaacca	tgcaaaaatc	tgaaaactgt	gtttcaaaag	ccaaacactt
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4321 tgtaagtatt	tatgaagatg	ctcattcaca	caaatttacc	caaacaggaa	gcatgtccta
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#### (2) INFORMATION FOR SEO ID NO:2534:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 919 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2534:
- 1 aggcccagtt gaaaccaggg agttgctctc ctttctcctc ccttgacctc acccctcaga 61 ccatgccaat tctgcctcct aaacctccca ggccagcccc tcccccagct cccagtgaca 121 gtgtcctcag gtacctgagc tcagctctcg gtgctaccag agggactgca gggctgcaga 181 ggctgagtcc cacacgcagg gaacagccat gccactgcta gcagaccagt aagagaatgg 241 ccacctgggg cctgagcgcc ctcggccatc caccagaaac aaagtgtcaa ggagaagctg 301 cccgaagccc atgggacaaa ccactgggga ctggaacacc agtaattctg tattgggaag 361 cggcaccaag agatgtgctt ctcagagcct gaggctgaac gtggatgttt agcagcgtga 421 ccggctacca gacaaactct catctgttcc agtggcctcc tggccaccca ccaggaccaa 481 gcagggggg cagcagaggg ccagggtagt ccaggtgatg gcagatgaga tcccactggg 541 caggagget cagtgagetg agteaggett eccetteetg ccaeaggggt ceteteacet 601 gctgccatgc ttcccatctc tcatcctcct tgacaagatg aagtgatacc gtttaagtaa 661 tcttttttct tgtttcactg atcttgagta ctagaaagtc atggatgaat aattacgtct 721 gtggttttct atggaggttc catgtcagat aaagatcctt ccgacgcctg ccccacacca 781 ccacctcccc cgccttgccc ggggttgtgg gcaccttgct gctgcacata taaggcggga 841 gctgttgcca actcttcaga gccccacgaa ggaccagaac aagacagagt gcctcctgcc 901 gatccaaaca tgagccgcc
- (2) INFORMATION FOR SEQ ID NO:2535:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 452 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2535:
  - 1 gccacccacc aggaccaagc agggcgggca gcagagggcc agggtagtcc aggtgatggc
  - 61 agatgagatc ccactgggca ggaggcctca gtgagctgag tcaggcttcc ccttcctgcc
  - 121 acaggggtcc tctcacctgc tgccatgctt cccatctctc atcctccttg acaagatgaa
  - 181 gtgataccgt ttaagtaatc ttttttcttg tttcactgat cttgagtact agaaagtcat
  - 241 ggatgaataa ttacgtctgt ggttttctat ggaggttcca tgtcagataa agatccttcc
  - 301 gacgootgoo coacaccaco acotococco goottgooog gggttgtggg cacettgotg
  - 361 ctgcacatat aaggcgggag gttgttgcca actcttcaga gccccacgaa ggaccagaac
  - 421 aagacagagt gcctcctgcc gatccaaaca tg
- (2) INFORMATION FOR SEQ ID NO:2536:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2749 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2536: 1 gatccaggag accagtctcc tagtaccagg tctgcttgcc taaacttgga gtataagagc 61 catagacact gtctcttcga tcagtccttg cccccacccc ctgctgttgc acccttatct 121 ttcaccetat tgeteetgea ttgaagacag aagcacceag tttcccctge etcagcataa 181 cttgctagcc ttcatttcct cgtgctggtc acatcacacc acaacccgac ccaaaccctg 241 gtttctctac catgcccctg cttccctgca ccccaggctt gtcacactca tcttctacca 301 aaactccagc tttgtgctgt ggcctgtcaa cctgtcccat ggaaaagggg gccaccccat 361 ccttcaggga ctgtcccctg gctctccaca ctcctggctt tgccactttc tctctagctg 421 tggtttctca ggtcctttga gaacttccca taactgtccc tgtttccttc ccacctctgt 481 aggcctgagc tgcaaaccag ctcccactcc acccaggctc cagggccgac tgggatttag 541 atccctcaat atggctttcc ttcagggagt agttctcttc tctcctcttg ccctccggc 601 tcaaacttgt ccatgccacc tgctacaccg tcctgcagct cccagtaact aacactattc 661 tcaaggccca cctttgtccc taggtcccta agcctaatta tctgagttat cagaaggatg 721 gcctagtgtt tgcagtcata tctccatcaa gggttctgtc ctctagatgt gggccttagc 781 gcattgcctt actgcactga gactagacca gtgaaggagt gagctgaact ccatatccac 841 ctgcaaggaa taagggtcaa tgggaaggct gcctagaggg agagggagct ctagctacca 901 gcggccagag gactagccca cccatggacg tttaaccatg tgccagaatg cctaccatgt 961 tcaagtttgc cccagtgacc ctggtggccc actaatagtg gtggcccaca gtcaggggca 1021 gatttgtaca agggatggta ggaagaggtt ccagtgcaca gaaaccccaa gctggctcgg 1081 agccaggcta cttcctccca ccacctgttt ccactcggtc catctctatg acaaaggaag 1141 aagatggcct ttgaataagc agtctttctt cccatgtcga taattttgag tactagaaaa 1201 cgatgaataa gtctgtggtt tgctatggag gttccatgtc agataaagct gcttctgatg 1321 aaggtgaagg ctcctgtggc ttcttcagaa ctctttggag gaccagaacg agacaatggt 1381 tettgccage tetaccacca geatectetg tatgetgete eegeteetga tgetetteea 1441 ccagggactc cagatttcag acaggggctc agatgcccac catttactca ggacgttgga 1501 ttgcaggact attgccttgg agattttggt gaagctccca gtgagtagct ggctgaggtt 1561 agcctgggca ggctggcttc aacaggtgcc tcggaccaat aagcctcatg attcttctt 1621 ttagtatcct caggtatctg gactcaataa tagtgacgac aaagccaatc tgagggtaag 1681 agccctgctc ttgggcattc ttgggttcca tctgtctcct gcctgggtga ctttagccat 1741 gtcactgcac cctgctttgc ttccgttttc acatctatct cagtggggtt attaaggaaa 1801 tcatcagatg actetetgag ceteagtetg tgccacagee agetgcaata atgaaagttg 1861 cattttagga gatacaatgg agagagaact gtgagtgaac cctgccacag gcctctggct 1921 ccactttcag tggggatgcc atggggatgc catggaccag tgaacgagtt gccttctgtg 1981 actgtgtctt ttgcttttct tcctcctcca aaactgagct tgtgttctcc acttccacca 2041 gcctaagaca ttaccatttg cagttatttt cccagctcta gttagataca atggttctgt 2101 ttcgttttta tttgtttgca agcgtgctga gtgtctacgt ttcccctccc tagggacatg 2161 atgaagtctg taggattttc ttctagatat ctagaagttc ttaattaaat taaagcattg 2221 gggttgggga tttagctcag tggtagagtg cttgcctagc aagcgcaagg ccctgagttc 2281 attccccagc tccgaaaaaa agaaaaaaga aaaagaaaaa aaattaaagc attaaccttg 2341 gtgtttggca tcttgggcat aagtatttcc cttggccaac cttctgcctt ttctagagct 2401 tgtctggaga gatatgtttc ccttaaaaac agacagatct gcttagagcc ttcacacagt 2461 ccacaggctg ccaggggtta agacctggtg ctcaggagaa acaggccctt gtctgggatg 2521 tgccctagct ttagccccag gataaggaaa ggaccaggag taaggctgtt caaagaaacc 2581 tetaacagca gtcacacete eccagetete acetececag eteteacete eccagetete 2641 accteteccg eteteacete eccagetete acctetecag eteteacete eccagetete 2701 acctecceag eteteacete tecagetete acctecceag eteteacet (2) INFORMATION FOR SEQ ID NO:2537: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 923 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2537: 1 cagagececa egaaggacea gaacaagaca gagtgeetee tgeegateea aacatgagee

403254.1 73999/01905

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  601 tctcacacat tccaggacca gaagcatttc accttttcct gcggcatcag atgaattgtt
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  721 tttatcccat tgagactatt tatttatgta tgtatgtatt tatttattta ttgcctggag
  781 tgtgaactgt atttatttta gcagaggagc catgtcctgc tgcttctgca aaaaactcag
  841 agtggggtgg ggagcatgtt catttgtacc tcgagtttta aactggttcc tagggatgtg
  901 tgagaataaa ctagactctg aac
(2) INFORMATION FOR SEQ ID NO:2538:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 882 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2538:
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   61 ggttaaaaaa aaaaaaagaa aaagaaaaga aaaccaagga agcaatcatc ataaaagaca
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  181 tttggagcgt tggcgatttt tttttgactt aagcatggtt aaatgggtga ttgcttataa
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(2) INFORMATION FOR SEQ ID NO:2539:
   (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 5925 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2539:
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 241 ccacctgggg cctgagcgcc ctcggccatc caccagaaac aaagtgtcaa ggagaagctg
 301 cccgaagccc atgggacaaa ccactgggga ctggaacacc agtaattctg tattgggaag
 361 cggcaccaag agatgtgctt ctcagagcct gaggctgaac gtggatgttt agcagcgtga
 421 ccggctacca gacaaactct catctgttcc agtggcctcc tggccaccca ccaggaccaa
 481 gcagggcggg cagcagaggg ccagggtagt ccaggtgatg gcagatgaga tcccactggg
 541 caggaggeet cagtgagetg agteaggett eccetteetg ceacaggggt ecteteacet
 601 gctgccatgc ttcccatctc tcatcctcct tgacaagatg aagtgatacc gtttaagtaa
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# (2) INFORMATION FOR SEQ ID NO:2540:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1460 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2540:
- 1 gcacacggga agatatcaga aacatcctag gatcaggaca ccccagatct tctcaactgg 61 aaccacgaag gctgtttctt ccacacagca ctttgatctc catttaagca ggcacctctg 121 tectgegtte eggagetgeg ttecegatgg tecteetttg geteacgetg eteetgateg 181 ccctgccctg tctcctgcaa acgaaggaag atccaaaccc accaatcacg aacctaagga 241 tgaaagcaaa ggctcagcag ttgacctggg accttaacag aaatgtgacc gatatcgagt 301 gtgttaaaga tgccgactat tctatgccgg cagtgaacaa tagctattgc cagtttggag 361 caatttcctt atgtgaagtg accaactaca ccgtccgagt ggccaaccca ccattctcca 421 cgtggatcct cttccctgag aacagtggga agccttgggc aggtgcggag aatctgacct 481 gctggattca tgacgtggat ttcttgagct gcagctgggc ggtaggcccg ggggcccccg 541 cggacgtcca gtacgacctg tacttgaacg ttgccaacag gcgtcaacag tacgagtgtc 601 ttcactacaa aacggatgct cagggaacac gtatcgggtg tcgtttcgat gacatctctc 661 gactetecag eggtteteaa agtteecaca teetggtgeg gggeaggage geageetteg 721 gtatcccctg cacagataag tttgtcgtct tttcacagat tgagatatta actccaccca 781 acatgactgc aaagtgtaat aagacacatt cctttatgca ctggaaaatg agaagtcatt 841 tcaatcgcaa atttcgctat gagcttcaga tacaaaagag aatgcagcct gtaatcacag 901 aacaggtcag agacagaacc tccttccagc tactcaatcc tggaacgtac acagtacaaa 961 taagagcccg ggaaagagtg tatgaattct tgagcgcctg gagcaccccc cagcgcttcg 1021 agtgcgacca ggaggagggc gcaaacacac gtgcctggcg gacgtcgctg ctgatcgcgc 1081 tggggacget getggecetg gtetgtgtet tegtgatetg cagaaggtat etggtgatge 1141 agagactett teccegeate ceteacatga aagaceeeat eggtgacage ttecaaaaeg 1201 acaagctggt ggtctgggag gcgggcaaag ccggcctgga ggagtgtctg gtgactgaag 1261 tacaggtcgt gcagaaaact tgagactggg gttcagggct tgtgggggtc tgcctcaatc 1321 tccctggccg ggccaggcgc ctgcacagac tggctgctgg acctgcgcac gcagcccagg 1381 aatggacatt cctaacgggt ggtgggcatg ggagatgcct gtgtaatttc gtccgaagct
- 1441 gccaggaaga agaacagaac
- (2) INFORMATION FOR SEQ ID NO:2541:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 614 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2541:
  - 1 gatcgttagc ttctcctgat aaactaattg cctcacattg tcactgcaaa tcgacaccta
  - 61 ttaatgggtc tcacctccca actgcttccc cctctgttct tcctgctagc atgtgccggc
  - 121 aactttgtcc acggacacaa gtgcgatatc accttacagg agatcatcaa aactttgaac
  - 181 agcctcacag agcagaagac tctgtgcacc gagttgaccg taacagacat ctttgctgcc 241 tccaagaaca caactgagaa ggaaaccttc tgcagggctg cgactgtgct ccggcagttc
  - 301 tacagccacc atgagaagga cactcgctgc ctgggtgcga ctgcacagca gttccacagg

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361 cacaagcagc tgatccgatt cctgaaacgg ctcgacagga acctctgggg cctggcgggc 421 ttgaattcct gtcctgtgaa ggaagccaac cagagtacgt tggaaaactt cttggaaagg 481 ctaaagacga tcatgagaga gaaatattca aagtgttcga gctgaatatt ttaatttatg 541 agtttttgat agctttattt tttaagtatt tatatattta taactcatca taaaataaag 601 tatatataga atct
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- (2) INFORMATION FOR SEQ ID NO:2542:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 9900 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2542:

1 gaattcaata aaaaacaagc agggcgcgtg gtggggcact gactaggagg gctgatttgt 61 aagttggtaa gactgtagct ctttttccta attagctgag gatgtgttta ggttccattc 121 aaaaagtggg cattcctggc caggcatggt ggctcacacc tgtaatctca gagctttggg 181 agactgaggt aggaggatca cttgagccca ggaatttgag atgagcctag gcaacatagt 241 gagactetta tetetateaa aaaataaaaa taaaaatgag eeaggeatgg tgeggtggae 301 cacgcaccta ctgctagggg ggctgaggtg ggaggatcat tgagcctggg aggttgaggc 361 tgcagtgatc cctgatcaaa cattgcattt cagcctgggt gacagagtga gaccctgtct 421 cagaaaaaaa aaaaaaaagt cattcctgaa acctcagaat agacctacct tgccaagggc 481 ttccttatgg gtaaggacct tatggacctg ctgggaccca aactaggcct cacctgatac 541 gacctgtcct tctcaaaaca ctaaacttgg gagaacattg tcccccagtg ctggggtagg 601 agagtetgee tgttattetg cetetatgea gagaaggage eccagateat etttteeatg 661 acaggacagt ttccaagatg ccacctgtac ttggaagaag ccaggttaaa atacttttca 721 agtaaaactt tottgatatt actotatott tooccaggag gactgoatta caacaaatto 781 ggacacctgt ggcctctccc ttctatgcaa agcaaaaagc cagcagcagc cccaagctga 841 taagattaat ctaaagagca aattatggtg taatttccta tgctgaaact ttgtagttaa 901 ttttttaaaa aggtttcatt ttcctattgg tctgatttca caggaacatt ttacctgttt 961 gtgaggcatt ttttctcctg gaagagaggt gctgattggc cccaagtgac tgacaatctg 1021 gtgtaacgaa aatttccaat gtaaactcat tttccctcgg tttcagcaat tttaaatcta 1081 tatatagaga tatctttqtc agcattqcat cgttagcttc tcctgataaa ctaattqcct 1141 cacattgtca ctgcaaatcg acacctatta atgggtctca cctcccaact gcttccccct 1201 ctgttcttcc tgctagcatg tgccggcaac tttgtccacg gacacaagtg cgatatcacc 1261 ttacaggaga tcatcaaaac tttgaacagc ctcacagagc agaaggtgag tacctatctg 1321 gcaccatctc tccagatgtt ctggtgatgc tctcagtatt tctaggcatg aaaacgttaa 1381 cagctgctag agaagttgga actggtggtt ggtggcagtc cagggcacac agcgaggctt 1441 ctccctgcca ctctttttc tgagggtttg taggaagttt cctcagttgg agggagtgag 1501 agctgctcat caaggacttc tctgtccggt tggaggttaa ctctgtctct tgctctcta 1561 tttctgcctg gaccaagact ctgtgcaccg agttgaccgt aacagacatc tttgctgcct 1621 ccaaqqtaaq aaqccqtccc acqqtctqtt ttagcaaatg gggagatcca tccccaaatg 1681 tctgaacaag aaacttgtct aatggaaaac gagcgggccc aaattaactc taaggtgtta 1741 gatgttttca aagaacgaga agtctgatct ttactcttaa gcatgttttg gtctttctgg 1801 tttcacttga tttagaagac atgtaataga aagcttacat gctgtagtcc tgactcagat 1861 cctggtcaaa gaaaagccct cttgggtttt acttagcttt ggcatagtgc ctggaacgta 1921 ggaggcactc aataaatgcc tgttgaatga gagaattttt ctggcccata catttctgaa 1981 aaaccaaata ctctcacaga aacagatatt gagatgacag gttgagggag ctttcatttt 2041 gtctaagaga cttcctatgg caacagaaaa ggtatcgcca gagcccctcc tcttccacag 2101 cctggccacc taacagccct ctggttccgg ggctgccgtc cagagctctc agcttgctct 2161 ggccggccga actcccctcc agctcggtct ggaaccatcc tgctgggcag cgtccagcac 2221 atccctgctt cgggctgcct gggcacctcg cctctctgcc tcctgtgctg cctcaccccc 2281 acccctctat ctgtagtggg agggagatag atttgacagc tgatagtgca ttttctctga 2341 caaacacatg actacagccg tatcaatagt tttgtgcatt tcagttcctg ttttcatgga 2401 aacacacqqc tqaqaatqaa agccccaaaq cctcaatttc acagtggtct cctaactacc 2461 tqctttccat qcaaactaqq qaqatqatat qqccaqqaqt qaaqccctqt qtqttqqqca 2521 gggtcacact ccaqcaccca qaccatagaa cagggcccat cctgcttcat gagggaaact 2581 gctcttcggg cctttagctg gactatctca tttcattagt tatcccggga gtccgataca 2641 ggatgagatt ctgaagggca aatacacact ttttttttt ttttqagata ggqtcttqtt 2701 ctqtcaccca qqctqqaqtq caqtqqtqcq atttcaqctc ataqcaqcct ccacctccca 2761 gqctcaaqct atcttcctac ctcaqcctcc caagtagccg ggacgacagg tgtgcaccac 2821 cacgcctggc taatttttgt attttttgt agagatggag tcttgccatt ttgcccaggc 2881 ttgtctcgaa cttctgggct caagcaatcc gtccacctcg gcctctcaaa gtgctgggat

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- (2) INFORMATION FOR SEQ ID NO:2543:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 10514 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2543:

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### (2) INFORMATION FOR SEQ ID NO:2544:

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- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2544:
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3301 gggacaattt gctgccaaac acccatgccc agctgtatgg ctgggggctc ctcgtatgca
3361 tggaaccccc agaataaata tgctcagcca ccctgtgggc cgggcaatcc agacagcagg
3421 cataaggcac cagttaccct gcatgttggc ccagacctca ggtgctaggg aaggcgggaa
3481 ccttgggttg agtaatgctc gtctgtgtgt tttagtttca tcacctgtta tctgtgtttg
3541 ctgaggagag tggaacagaa ggggtggagt tttgtataaa taaagtttct ttgtctc
```

- (2) INFORMATION FOR SEQ ID NO:2545:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3241 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2545:

1 ggatcctaat caagacccca gtgaacagaa ctcgaccctg ccaaggcttg gcagtttcca 61 tttcaatcac tgtcttccca ccagtatttt caatttcttt taagacagat taatctagcc 121 acagtcatag tagaacatag ccgatctgaa aaaaacattc ccaatattta tgtattttag 181 cataaaattc tgtttagtgg tctaccttat actttgtttt gcacacatct tttaagagga 241 agttaatttt ctgattttaa gaaatgcaaa tgtggggcaa tgatgtatta acccaaagat 301 tcttcgtaat agaaaatgtt tttaaagggg ggaaacaggg atttttatta ttaaaagata 361 aaagtaaatt tatttttaa gatataaggc attggaaaca tttagtttca cgatatgcca 421 ttattaggca ttctctatct gattgttaga aattattcat ttcctcaaag acagacaata 481 aattgactgg ggacgcagtc ttgtactatg cactttcttt gccaaaggca aacgcagaac 541 gtttcagagc catgaggatg cttctgcatt tgagtttgct agctcttgga gctgcctacg 601 tgtatgccat ccccacagaa attcccacaa gtgcattggt gaaagagacc ttggcactgc 661 tttctactca tcgaactctg ctgatagcca atgaggtaat tttctttatg attcctacag 721 tctgtaaagt gcataggtaa tcatttgtga tggttccttt actatatata gagatctgtt 781 ataaataata agattotgag cacattagta catgggtgat aactacatca ccagcaaaca 841 ttctgttaaa agttatgaat gctggtgtgc tgtaaaaatg attgtatttc ctttcctctc 901 cagactetga ggatteetgt teetgtacat aaaaatgtaa gttaaattat gatteagtaa 961 aatgatggca tgaataagta aattteetgt tttaagetgt aaateattag ttateattgg 1021 aactatttaa ttttctatat tttgttttca tatgggtggc tgtgaatgtc tgtacttata 1081 aatatgagga atgacttttt atcaagtaga atcctttaaa caagtggatt aggctctttg 1141 gtgatgttgt tagtttgcct cccaaagagc atcgtgtcag ggattctttc cagaaggatt 1201 ccacactgag tgagaggtgc gtgctagtct ccgtgcagtt ctgactcttt ctcactctaa 1261 cgtgtttctg aaagtattag caactcagaa ttatatttt agaaccatga tcagtagaca 1321 ttaaaatata taacaaatgc cctatattaa taatttctgc atacttaaat aattatgact 1381 atatgatggt gttgtatgca tttgaatatg tcctggtcat attaaaatgt aaaatatata 1441 gttttattag tctaaataga ataaaactac cagctagaac tgtagaaaca cattgatatg 1501 agtttaatgt ataatgcatt acacttccaa aacatttttt tccagttaca taattaagtt 1561 atateettta taaaaeteet eagtaateat ataagettea tetaettttt gaaaatttta 1621 tcttaatatg tggtggtttg ttgcctagaa aacaaacaaa aaactctttg gagaagggaa 1681 ctcatgtaaa taccacaaaa caaagcctaa ctttgtggac caaaattgtt ttaataatta 1801 gtatgtatac attgcagaat ggacaatgga ccaaattttt ataccttgtc ttgattattt 1861 gcattttaaa aattttcctc atttagcacc aactgtgcac tgaagaaatc tttcagggaa 1921 taggcacact ggagagtcaa actgtgcaag ggggtactgt ggaaagacta ttcaaaaact 1981 tgtccttaat aaagaaatac attgacggcc aaaaagtaag ttacacacat tcaatggaag 2041 ctatatttgt ctggctgtgc ctatttctat ggaattgaca gtttcctgta atacctattg 2101 tcatttttct tttttcacag aaaaagtgtg gagaagaaag acggagagta aaccaattcc 2161 tagactacct gcaagagttt cttggtgtaa tgaacaccga gtggataata gaaagttgag 2221 actaaactgg tttgttgcag ccaaagattt tggaggagaa ggacatttta ctgcagtgag 2281 aatgagggcc aagaaagagt caggccttaa ttttcagtat aatttaactt cagagggaaa 2341 gtaaatattt caggcatact gacactttgc cagaaagcat aaaattctta aaatatattt 2401 cagatatcag aatcattgaa gtattttcct ccaggcaaaa ttgatatact tttttcttat 2461 ttaacttaac attctgtaaa atgtctgtta acttaatagt atttatgaaa tggttaagaa 2521 tttggtaaat tagtatttat ttaatgttat gttgtgttct aataaaacaa aaatagacaa 2581 ctgttcaatt tgctgctggc ctctgtctta gcaattgaag ttagcacagt ccattgagta 2641 catgcccagt ttggaggaag ggtctgagca catgtggctg agcatcccca tttctctgga 2701 gaagteteaa ggttgeaagg cacaccagag gtggaagtga tetageagga ettagtgggg 2761 atgtggggag cagggacaca ggcaggaggt gaacctggtt ttctctctac agtatatcca 2821 gaacctggga tggtgcaggg taaatggtag ggaataaatg aatgaatgtg ctttccaaga 2881 ctgattgtag aactaaaatg agttgtaagg cgtcccctgg aagaagggca gtgtgggaac 2941 ctgtaactag gttcctgccc agcctgtgag aagaatttgg cagatcaatc tcattgccag 3001 tatagagagg aagccagaaa ccctctctgc caaggcctgc aggggttctt accccacctg 3061 accctgcacc ataacaaaag gaacagagag acactggtag ggcagtccca ttagaaagac 3121 tgagttccgt attcccgggg gcagggcagc accaggccgc acaacactcc attctgcctg 3181 cttatggcta tcagtagcat cactagagat tcttctgttt gagaaaactt ctcaaggatc 3241 c

- (2) INFORMATION FOR SEQ ID NO: 2546:
  - (i) SEQUENCE CHARACTERISTICS:

```
(A) LENGTH: 816 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: single
   (D) TOPOLOGY: linear
  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2546:
  1 atgcactttc tttgccaaag gcaaacgcag aacgtttcag agccatgagg atgcttctgc
 61 atttgagttt gctagctctt ggagctgcct acgtgtatgc catccccaca gaaattccca
121 caagtgcatt ggtgaaagag accttggcac tgctttctac tcatcgaact ctgctgatag
181 ccaatgagac tctgaggatt cctgttcctg tacataaaaa tcaccaactg tgcactgaag
241 aaatetttea gggaatagge acaetggaga gteaaaetgt geaagggggt aetgtggaaa
301 gactattcaa aaacttgtcc ttaataaaga aatacattga cggccaaaaa aaaaagtgtg
361 gagaagaaag acggagagta aaccaattcc tagactacct gcaagagttt cttggtgtaa
421 tgaacaccga gtggataata gaaagttgag actaaactgg tttgttgcag ccaaagattt
481 tggaggagaa ggacatttta ctgcagtgag aatgagggcc aagaaagagt caggccttaa
541 ttttcaatat aatttaactt cagagggaaa gtaaatattt caggcatact gacactttgc
601 cagaaagcat aaaattotta aaatatattt cagatatcag aatcattgaa gtattttoot
721 acttaatagt atttatgaaa tggttaagaa tttggtaaat tagtatttat ttaatgttat
781 gttgtgttct aataaaacaa aaatagacaa ctgttc
```

- (2) INFORMATION FOR SEQ ID NO:2547:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4057 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2547:

```
1 ggatcctaat caagacccca gtgaacagaa ctcgaccctg ccaaggcttg gcagtttcca
  61 tttcaatcac tgtcttccca ccagtatttt caatttcttt taagacagat taatctagcc
 121 acagtcatag tagaacatag ccgatctgaa aaaaacattc ccaatattta tgtattttag
 181 cataaaattc tgtttagtgg tctaccttat actttgtttt gcacacatct tttaagagga
 241 agttaatttt ctgattttaa gaaatgcaaa tgtggggcaa tgatgtatta acccaaagat
 301 tcttcgtaat agaaaatgtt tttaaagggg ggaaacaggg atttttatta ttaaaagata
 361 aaagtaaatt tatttttaa gatataaggc attggaaaca tttagtttca cgatatgcca
 421 ttattaggca ttctctatct gattgttaga aattattcat ttcctcaaag acagacaata
 481 aattgactgg ggacgcagtc ttgtactatg cactttcttt gccaaaggca aacgcagaac
 541 gtttcagagc catgaggatg cttctgcatt tgagtttgct agctcttgga gctgcctacg
 601 tgtatgccat ccccacagaa attcccacaa gtgcattggt gaaagagacc ttggcactgc
 661 tttctactca tcgaactctg ctgatagcca atgaggtaat tttctttatg attcctacag
 721 tctgtaaagt gcataggtaa tcatttgtga tggttccttt actatatata gagatctgtt
 781 ataaataata agattctgag cacattagta catgggtgat aactacatca ccagcaaaca
 841 ttctgttaaa agttatgaat gctggtgtgc tgtaaaaatg attgtatttc ctttcctctc
 901 cagactetga ggatteetgt teetgtacat aaaaatgtaa gttaaattat gatteagtaa
 961 aatgatggca tgaataagta aatttcctgt tttaagctgt aaatcattag ttatcattgg
1021 aactatttaa ttttctatat tttgttttca tatgggtggc tgtgaatgtc tgtacttata
1081 aatatgagga atgacttttt atcaagtaga atcctttaaa caagtggatt aggctctttg
1141 gtgatgttgt tagtttgcct cccaaagagc atcgtgtcag ggattctttc cagaaggatt
1201 ccacactgag tgagaggtgc gtgctagtct ccgtgcagtt ctgactcttt ctcactctaa
1261 cgtgtttctg aaagtattag caactcagaa ttatattttt agaaccatga tcagtagaca
1321 ttaaaatata taacaaatgc cctatattaa taatttctgc atacttaaat aattatgact
1381 atatgatggt gttgtatgca tttgaatatg tcctggtcat attaaaatgt aaaatatata
1441 gttttattag tctaaataga ataaaactac cagctagaac tgtagaaaca cattgatatg
1501 agtttaatgt ataatgcatt acacttccaa aacatttttt tccagttaca taattaagtt
1561 atatccttta taaaactcct cagtaatcat ataagcttca tctacttttt gaaaatttta
1621 tcttaatatg tggtggtttg ttgcctagaa aacaaacaaa aaactctttg gagaagggaa
1681 ctcatgtaaa taccacaaaa caaagcctaa ctttgtggac caaaattgtt ttaataatta
1801 gtatgtatac attgcagaat ggacaatgga ccaaattttt ataccttgtc ttgattattt
1861 gcattttaaa aattttcctc atttagcacc aactgtgcac tgaagaaatc tttcagggaa
1921 taggcacact ggagagtcaa actgtgcaag ggggtactgt ggaaagacta ttcaaaaact
1981 tgtccttaat aaagaaatac attgacggcc aaaaagtaag ttacacacat tcaatggaag
2041 ctatatttgt ctggctgtgc ctatttctat ggaattgaca gtttcctgta atacctattg
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2101 tcatttttct tttttcacag aaaaagtgtg gagaagaaag acggagagta aaccaattcc
2161 tagactacct gcaagagttt cttggtgtaa tgaacaccga gtggataata gaaagttgag
2221 actaaactgg tttgttgcag ccaaagattt tggaggagaa ggacatttta ctgcagtgag
2281 aatgagggcc aagaaagagt caggccttaa ttttcagtat aatttaactt cagagggaaa
2341 gtaaatattt caggcatact gacactttgc cagaaagcat aaaattctta aaatatattt
2401 cagatatcag aatcattgaa gtattttcct ccaggcaaaa ttgatatact tttttcttat
2461 ttaacttaac attctgtaaa atgtctgtta acttaatagt atttatgaaa tggttaagaa
2521 tttggtaaat tagtatttat ttaatgttat gttgtgttct aataaaacaa aaatagacaa
2581 ctgttcaatt tgctgctggc ctctgtctta gcaattgaag ttagcacagt ccattgagta
2641 catgcccagt ttggaggaag ggtctgagca catgtggctg agcatcccca tttctctgga
2701 gaagteteaa ggttgeaagg cacaccagag gtggaagtga tetageagga ettagtgggg
2761 atgtggggag cagggacaca ggcaggaggt gaacctggtt ttctctctac agtatatcca
2821 gaacctggga tggtgcaggg taaatggtag ggaataaatg aatgaatgtg ctttccaaga
2881 ctgattgtag aactaaaatg agttgtaagg cgtcccctgg aagaagggca gtgtgggaac
2941 ctgtaactag gttcctgccc agcctgtgag aagaatttgg cagatcaatc tcattgccag
3001 tatagagagg aagccagaaa ccctctctgc caaggcctgc aggggttctt accccacctg
3061 accctgcacc ataacaaaag gaacagagag acactggtag ggcagtccca ttagaaagac
3121 tgagttccgt attcccgggg gcagggcagc accaggccgc acaacactcc attctgcctg
3181 cttatggcta tcagtagcat cactagagat tcttctgttt gagaaaactt ctcaaggatc
3241 c
  1 atgcactttc tttgccaaag gcaaacgcag aacgtttcag agccatgagg atgcttctgc
 61 atttgagttt gctagctctt ggagctgcct acgtgtatgc catccccaca gaaattccca
121 caagtgcatt ggtgaaagag accttggcac tgctttctac tcatcgaact ctgctgatag
181 ccaatgagac tctgaggatt cctgttcctg tacataaaaa tcaccaactg tgcactgaag
241 aaatctttca gggaataggc acactggaga gtcaaactgt gcaagggggt actgtggaaa
301 gactattcaa aaacttgtcc ttaataaaga aatacattga cggccaaaaa aaaaagtgtg
361 gagaagaaag acggagagta aaccaattcc tagactacct gcaagagttt cttggtgtaa
421 tgaacaccga gtggataata gaaagttgag actaaactgg tttgttgcag ccaaagattt
481 tggaggagaa ggacatttta ctgcagtgag aatgagggcc aagaaagagt caggccttaa
541 ttttcaatat aatttaactt cagagggaaa gtaaatattt caggcatact gacactttgc
601 cagaaagcat aaaattotta aaatatattt cagatatcag aatcattgaa gtattttoot
721 acttaatagt atttatgaaa tggttaagaa tttggtaaat tagtatttat ttaatgttat
781 gttgtgttct aataaaacaa aaatagacaa ctgttc
```

# (2) INFORMATION FOR SEQ ID NO:2548:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2024 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2548:
- 1 tagatgctgg ggttgcagcc acgagcatag acacgacaga cacggtcctc gccatcttct 61 gttgagtact ggtcggaaca agaggatcgt ctgtagacag gatatgatca tcgtggcgca 121 tgtattactc atccttttgg gggccactga gatactgcaa gctgacttac ttcctgatga 181 aaagatttca cttctcccac ctgtcaattt caccattaaa gttactggtt tggctcaagt 241 tcttttacaa tggaaaccaa atcctgatca agagcaaagg aatgttaatc tagaatatca 301 agtgaaaata aacgctccaa aagaagatga ctatgaaacc agaatcactg aaagcaaatg 361 tgtaaccatc ctccacaaag gcttttcagc aagtgtgcgg accatcctgc agaacgacca 421 ctcactactg gccagcagct gggcttctgc tgaacttcat gccccaccag ggtctcctgg 481 aacctcaatt gtgaatttaa cttgcaccac aaacactaca gaagacaatt attcacgttt 541 aaggtcatac caagtttccc ttcactgcac ctggcttgtt ggcacagatg cccctgagga 601 cacgcagtat tttctctact ataggtatgg ctcttggact gaagaatgcc aagaatacag 661 caaagacaca ctggggagaa atatcgcatg ctggtttccc aggactttta tcctcagcaa 721 agggcgtgac tggcttgcgg tgcttgttaa cggctccagc aagcactctg ctatcaggcc 781 ctttgatcag ctgtttgccc ttcacgccat tgatcaaata aatcctccac tgaatgtcac 841 agcagagatt gaaggaactc gtctctctat ccaatgggag aaaccagtgt ctgcttttcc 901 aatccattgc tttgattatg aagtaaaaat acacaataca aggaatggat atttgcagat 961 agaaaaattg atgaccaatg cattcatctc aataattgat gatctttcta agtacgatgt 1021 tcaagtgaga gcagcagtga gctccatgtg cagagaggca gggctctgga gtgagtggag 1081 ccaacctatt tatgtgggaa atgatgaaca caagcccttg agagagtggt ttgtcattgt

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1141 gattatggca accatctgct tcatcttgtt aattctctcg cttatctgta aaatatgtca
1201 tttatggatc aagttgtttc caccaattcc agcaccaaaa agtaatatca aagatctctt
1261 tgtaaccact aactatgaga aagctggaat ttaaattcaa gcatgtttta acttttggtt
1321 taaggtactt gggtgtacct ggcagtgttg taagctcttt acattaatta attaactctc
1381 taggtactgt tatcttcatt ttataaacaa ggcagctgaa gttgagagaa ataagtaacc
1441 tgtcctaggt cacacaatta ggaaatgaca gatctggcag tctatttcca ggcagtctat
1501 ttccacgagg tcatgagtgc gaaagaggga ctaggggaag aatgattaac tccagggagc
1561 tgacttttct agtgtgctta cctgttttgc atctctcaag gatgtgccat gaagctgtag
1621 ccaggtggaa ttgtaccaca gccctgacat gaacacctga tggcagctgc tgggttggag
1681 cctagacaaa aacatgaaga accatggctg ctgcctgagc ccatcgtgct gtaattatag
1741 aaaaccttct aagggaagaa tatgctgata tttttcagat aagtacccct tttataaaaa
1801 tcctccaagt tagccctcga ttttccatgt aaggaaacag aggctttgag ataatgtctg
1861 tctcctaagg gacaaagcca ggacttgatc ctgtcttaaa aatgcaaaat gtagtacttc
1921 ttccatcaaa ggtagacatg cactaaggga caggttttgg cttggtatca gaatacattt
1981 ttaaaagctg tgtaagaatt gaacgggctg tactaggggg tata
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- (2) INFORMATION FOR SEQ ID NO:2549:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 931 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2549:

```
1 gatctttcta agtacgatgt tcaagtgaga gcagcagtga gctccatgtg cagagaggca
 61 gggctctgga gtgagtggag ccaacctatt tatgtgggaa atgatgaaca caagcccttg
121 agagagtggt ttgtcattgt gattatggca accatctgct tcatcttgtt aattctctcg
181 cttatctgta aaatatgtca tttatggatc aagttgtttc caccaattcc agcaccaaaa
241 agtaatatca aagatctctt tgtaaccact aactatgagg tcctctgcat tttcatatac
301 atcttagatt cggctgacaa ttttctacaa aaaaagaaag ctgggtccag tgagacggaa
361 attgaagtca tctgttatat agagaagcct ggagttgaga ccctggagga ttctgtgttt
421 tgactgtcac tttggcatcc tctgatgaac tcacacatgc ctcagtgcct cagtgaaaag
481 aacagggatg ctggctcttg gctaagaggt gttcagaatt taggcaacac tcaatttacc
541 tgcgaagcaa tacacccaga cacaccagtc ttgtatctct taaaagtatg gatgcttcat
601 ccaaatcgcc tcacctacag cagggaagtt gactcatcca agcattttgc catgttttt
661 ctccccatgc cgtacagggt agcacctcct cacctgccaa tctttgcaat ttgcttgact
721 cacctcagac ttttcattca caacagacag cttttaaggc taacgtccag ctgtatttac
781 ttctggctgt gcccgtttgg ctgtttaagc tgccaattgt agcactcagc taccatctga
841 ggaagaaagc attttgcatc agcctggagt gaaccatgaa cttggattca agactgtctt
901 ttctatagca agtgagagcc acaaattcct c
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- (2) INFORMATION FOR SEQ ID NO: 2550:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1327 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2550:
- 1 ccgctgcttc tcatcgcatg gccaccgcat ttctcaggcc aggcacattg agcattggtc 61 ctgtgcctga cgctatgcta gatgctgggg ttgcagccac gagcatagac acgacagaca 121 cggtcctcgc catcttctgt tgagtactgg tcggaacaag aggatcgtct gtagacaggc 181 tacagattgt tttagattga agtttcctgt catgttcact catctttaaa tcctcatagt 241 aaaaaggata tgatcatcgt ggcgcatgta ttactcatcc ttttgggggc cactgagata 301 ctgcaagctg acttacttcc tgatgaaaag atttcacttc tcccacctgt caatttcacc 361 attaaagtta ctggtttggc tcaagttctt ttacaatgga aaccaaatcc tgatcaagag 421 caaaggaatg ttaatctaga atatcaagtg aaaataaacg ctccaaaaga agatgactat 481 gaaaccagaa tcactgaaag caaatgtgta accatcctcc acaaaggctt ttcagcaagt 541 gtgcggacca tcctgcagaa cgaccactca ctactggcca gcagctgggc ttctgctgaa 601 cttcatgccc caccagggtc tcctggaacc tcaattgtga atttaacttg caccacaaac 661 actacagaag acaattattc acgtttaagg tcataccaag tttcccttca ctgcacctgg 721 cttgttggca cagatgcccc tgaggacacg cagtattttc tctactatag gtatggctct 781 tggactgaag aatgccaaga atacagcaaa gacacactgg ggagaaatat cgcatgctgg 841 tttcccagga cttttatcct cagcaaaggg cgtgactggc tttcggtgct tgttaacggc 901 tccagcaagc actctgctat caggcccttt gatcagctgt ttgcccttca cgccattgat

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961 caaataaatc ctccactgaa tgtcacagca gagattgaag gaactcgtct ctctatccaa
 1021 tgggagaaac cagtgtctgc ttttccaatc cattgctttg attatgaagt aaaaatacac
 1081 aatacaagga atggatattt gcagatagaa aaattgatga ccaatgcatt catctcaata
 1141 attgatgatc tttctaagta cgatgttcaa gtgagagcag cagtgagctc catgtgcaga
 1201 gaggcagggc tctggagtga gtggagccaa cctatttatg tggggttctc aagataaagg
 1261 agataacatc cagctttcct gccccacacc gtatctgaaa taaaaacaac agcagggata
 1321 gcagatt
(2) INFORMATION FOR SEQ ID NO:2551:
    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 1664 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2551:
    1 ccgctgcttc tcatcgcatg gccaccgcat ttctcaggcc aggcacattg agcattggtc
   61 ctgtgcctga cgctatgcta gatgctgggg ttgcagccac gagcatagac acgacagaca
  121 cggtcctcgc catcttctgt tgagtactgg tcggaacaag aggatcgtct gtagacaggc
  181 tacagattgt tttagattga agtttcctgt catgttcact catctttaaa tcctcatagt
  241 aaaaaggata tgatcatcgt ggcgcatgta ttactcatcc ttttgggggc cactgagata
  301 ctgcaagctg acttacttcc tgatgaaaag atttcacttc tcccacctgt caatttcacc
  361 attaaagtta ctggtttggc tcaagttctt ttacaatgga aaccaaatcc tgatcaagag
  421 caaaggaatg ttaatctaga atatcaagtg aaaataaacg ctccaaaaga agatgactat
  481 gaaaccagaa tcactgaaag caaatgtgta accatcctcc acaaaggctt ttcagcaagt
  541 gtgcggacca tcctgcagaa cgaccactca ctactggcca gcagctgggc ttctgctgaa
  601 cttcatgccc caccagggtc tcctggaacc tcaattgtga atttaacttg caccacaaac
  661 actacagaag acaattattc acgtttaagg tcataccaag tttcccttca ctgcacctgg
  721 cttgttggca cagatgcccc tgaggacacg cagtattttc tctactatag gtatggctct
  781 tggactgaag aatgccaaga atacagcaaa gacacactgg ggagaaatat cgcatgctgg
 841 tttcccagga cttttatcct cagcaaaggg cgtgactggc tttcggtgct tgttaacggc
 901 tccagcaagc actctgctat caggcccttt gatcagctgt ttgcccttca cgccattgat
 961 caaataaatc ctccactgaa tgtcacagca gagattgaag gaactcgtct ctctatccaa
1021 tgggagaaac cagtgtctgc ttttccaatc cattgctttg attatgaagt aaaaatacac
1081 aatacaagga atggatattt gcagatagaa aaattgatga ccaatgcatt catctcaata
1141 attgatgatc tttctaagta cgatgttcaa gtgagagcag cagtgagctc catgtgcaga
1201 gaggcagggc tctggagtga gtggagccaa cctatttatg tgggtaagta gcttatgttt
1261 attttacatt ggcagccttc cttgtgatca aaaaaggtaa tcccagaaac gtacccgttc
1321 actcgtgggt cttaaaatgg tttcatatct ctattgtgac taattttctc tcggtctact
1381 gccttttcaa tcaggaatag atttgccatg aagccagtga agtttttaag tgtctaggct
1441 teteattagt gecaactete etagacetgg tgeetgtttt ttttecaagt tttgttteta
1501 cttctatcca ttttttaaat taaacttttt attttgaaat aattatcaca ctcacaagct
1561 gtgggaagaa ataatagaga tcctgtgtct ctttcatcca gttttcctca agggtaacat
1621 cttacaaaac tatagtacaa tagtggaata gaatatttgg tgtt
(2) INFORMATION FOR SEQ ID NO:2552:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1998 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2552:
   1 ccgctgcttc tcatcgcatg gccaccgcat ttctcaggcc aggcacattg agcattggtc
  61 ctgtgcctga cgctatgcta gatgctgggg ttgcagccac gagcatagac acgacagaca
 121 cggtcctcgc catcttctgt tgagtactgg tcggaacaag aggatcgtct gtagacaggc
 181 tacagattgt tttagattga agtttcctgt catgttcact catctttaaa tcctcatagt
 241 aaaaaggata tgatcatcgt ggcgcatgta ttactcatcc ttttgggggc cactgagata
 301 ctgcaagctg acttacttcc tgatgaaaag atttcacttc tcccacctgt caatttcacc
 361 attaaagtta ctggtttggc tcaagttctt ttacaatgga aaccaaatcc tgatcaagag
 421 caaaggaatg ttaatctaga atatcaagtg aaaataaacg ctccaaaaga agatgactat
 481 gaaaccagaa tcactgaaag caaatgtgta accatcctcc acaaaggctt ttcagcaagt
 541 gtgcggacca tcctgcagaa cgaccactca ctactggcca gcagctgggc ttctgctgaa
 601 cttcatgccc caccagggtc tcctggaacc tcaattgtga atttaacttg caccacaaac
 661 actacagaag acaattattc acgtttaagg tcataccaag tttcccttca ctgcacctgg
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721 cttgttggca cagatgcccc tgaggacacg cagtattttc tctactatag gtatggctct
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 841 tttcccagga cttttatcct cagcaaaggg cgtgactggc tttcggtgct tgttaacggc
 901 tocagoaago actotgotat caggocottt gatcagotgt ttgcccttca cgccattgat
 961 caaataaatc ctccactgaa tgtcacagca gagattgaag gaactcgtct ctctatccaa
1021 tgggagaaac cagtgtctgc ttttccaatc cattgctttg attatgaagt aaaaatacac
1081 aatacaagga atggatattt gcagatagaa aaattgatga ccaatgcatt catctcaata
1141 attgatgate tttctaagta egatgttcaa gtgagageag eagtgagete eatgtgeaga
1201 gaggcagggc tctggagtga gtggagccaa cctatttatg tgggaaatga tgaacacaag
1261 cccttgagag agtggtttgt cattgtgatt atggcaacca tctgcttcat cttgttaatt
1321 ctctcqctta tctqtaaaat atqtcattta tqqatcaaqt tqtttccacc aattccaqca
1381 ccaaaaagta atatcaaaga tctctttgta accactaact atgagaaagc tgggtccagt
1441 gagacggaaa ttgaagtcat ctgttatata gagaagcctg gagttgagac cctggaggat
1501 tetgtgtttt gaetgteact ttggcatect etgatgaact cacacatgee teagtgeete
1561 agtgaaaaga acagggatgc tggctcttgg ctaagaggtg ttcagaattt aggcaacact
1621 caatttacct gcgaagcaat acaccagac acaccagtct tgtatctctt aaaagtatgg
1681 atgcttcatc caaatcgcct cacctacagc agggaagttg actcatccaa gcattttgcc
1741 atgttttttc tccccatgcc gtacagggta gcacctcctc acctgccaat ctttgcaatt
1801 tgcttgactc acctcagact ttcattcaca acagacagct tttaaggcta acgtccagct
1861 gtatttactt ctggctgtgc cgtttggctg tttaagctgc caattgtagc actcagctac
1921 catctgagga agaaagcatt ttgcatcagc ctggagtgaa ccatgaactt ggattcaaga
1981 ctgtcttttc tatagcaa
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## (2) INFORMATION FOR SEQ ID NO:2553:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1405 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2553:
- 1 gtcttttgaa aggatctgcc gctgcttctc atcgcatggc caccgcattt ctcaggccag 61 gcacattgag cattggtcct gtgcctgacg ctatgctaga tgctggggtt gcagccacga 121 gcatagacac gacagacacg gtcctcgcca tcttctgttg agtactggtc ggaacaagag 181 gategtetgt agacaggata tgateategt ggegeatgta ttacteatee ttttggggge 241 cactgagata ctgcaagctg acttacttcc tgatgaaaag atttcacttc tcccacctgt 301 caatttcacc attaaagtta ctggtttggc tcaagttctt ttacaatgga aaccaaatcc 361 tgatcaagag caaaggaatg ttaatctaga atatcaagtg aaaataaacg ctccaaaaga 421 agatgactat gaaaccaqaa tcactgaaag caaatgtgta accatcctcc acaaaggctt 481 ttcagcaagt gtgcggacca tcctgcagaa cgaccactca ctactggcca gcagctgggc 541 ttctgctgaa cttcatgccc caccagggtc tcctggaacc tcaattgtga atttaacttg 601 caccacaaac actacagaag acaattattc acgtttaagg tcataccaag tttcccttca 661 ctgcacctgg cttgttggca cagatgcccc tgaggacacg cagtattttc tctactatag 721 gtatggctct tggactgaag aatgccaaga atacagcaaa gacacactgg ggagaaatat 781 cgcatgctgg tttcccagga cttttatcct cagcaaaggg cgtgactggc ttgcggtgct 841 tgttaacggc tccagcaagc actctgctat caggcccttt gatcagctgt ttgcccttca 901 cgccattgat caaataaatc ctccactgaa tgtcacagca gagattgaag gaactcgtct 961 ctctatccaa tgggagaaac cagtgtctgc ttttccaatc cattgctttg attatgaagt 1021 aaaaatacac aatacaagga atggatattt gcagatagaa aaattgatga ccaatgcatt 1081 catctcaata attgatgatc tttctaagta cgatgttcaa gtgagagcag cagtgagctc 1141 catgtgcaga gaggcagggc tctggagtga gtggagccaa cctatttatg tgggtaagta 1201 gcttatgttt attttacatt ggcagccttc cttgtgatca aaaaaggtaa tcccagaaac 1261 gtacccgttc actcgtgggt cttaaaatgg tttcatatct ctattgtgac taattttctc 1321 teggtetact geetttteaa teaggaatag atttgeeatg aageeagtga agtttttaag 1381 tgtctaggct tctcattagc gccac

## (2) INFORMATION FOR SEQ ID NO: 2554:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2006 base pairs

  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2554:
- 1 cggtcctcgc catcttctgt tgagtactgg tcggaacaag aggatcgtct gtagacagga

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61 tatgatcatc gtggcgcatg tattactcat ccttttgggg gccactgaga tactgcaagc
 121 tgacttactt cctgatgaaa agatttcact tctcccacct gtcaatttca ccattaaagt
 181 tactggtttg gctcaagttc ttttacaatg gaaaccaaat cctgatcaag agcaaaggaa
 241 tgttaatcta gaatatcaag tgaaaataaa cgctccaaaa gaagatgact atgaaaccag
 301 aatcactgaa agcaaatgtg taaccatcct ccacaaaggc ttttcagcaa gtgtgcggac
 361 catcctgcag aacgaccact cactactggc cagcagctgg gcttctgctg aacttcatgc
 421 cccaccaggg tctcctggaa cctcagttgt gaatttaact tgcaccacaa acactacaga
 481 agacaattat tcacgtttaa ggtcatacca agtttccctt cactgcacct ggcttgttgg
 541 cacagatgcc cctgaggaca cgcagtattt tctctactat aggtatggct cttggactga
 601 agaatgccaa gaatacagca aagacacact ggggagaaat atcgcatgct ggtttcccag
 661 gacttttatc ctcagcaaag ggcgtgactg gcttgcggtg cttgttaacg gctccagcaa
 721 gcactctgct atcaggccct ttgatcagct gtttgccctt cacgccattg atcaaataaa
 781 tectecactg aatgteacag cagagattga aggaactegt etetetatee aatgggagaa
 841 accagtgtct gcttttccaa tccattgctt tgattatgaa gtaaaaatac acaatacaag
 901 gaatggatat ttgcagatag aaaaattgat gaccaatgca ttcatctcaa taattgatga
 961 tetttetaag tacgatgtte aagtgagage ageagtgage teeatgtgea gagaggeagg
1021 gctctggagt gagtggagcc aacctattta tgtgggaaat gatgaacaca agcccttgag
1081 agagtggttt gtcattgtga ttatggcaac catctgcttc atcttgttaa ttctctcgct
1141 tatctgtaaa atatgtcatt tatggatcaa gttgtttcca ccaattccag caccaaaaag
1201 taatatcaaa gatctctttg taaccactaa ctatgagaaa gctgggtcca gtgagacgga
1261 aattgaagtc atctgttata tagagaagcc tggagttgag accctggagg attctgtgtt
1321 ttgactgtca ctttggcatc ctctgatgaa ctcacacatg cctcagtgcc tcagtgaaaa
1381 gaacagggat gctggctctt ggctaagagg tgttcagaat ttaggcaaca ctcaatttac
1441 ctgcgaagca atacaccag acacaccagt cttgtatctc ttaaaagtat ggatgcttca
1501 tccaaatcgc ctcacctaca gcagggaagt tgactcatcc aagcattttg ccatgttttt
1561 tetececatg cegtacaggg tagcacetee teacetgeea atetttgeaa tttgettgae
1621 tcacctcaga cttttcattc acaacagaca gcttttaagg ctaacgtcca gctgtattta
1681 cttctggctg tgcccgtttg gctgtttaag ctgccaattg tagcactcag ctaccatctg
1741 aggaagaaag cattttgcat cagcctggag tgaatcatga acttggattc aagactgtct
1801 tttctatagc aagtgagagc cacaaattcc tcacccccct acattctaga atgatctttt
1921 gagaaattat ctcaagetee agaggeetga tecaggatae atcatttgaa accaactaat
1981 ttaaaagcat aatagagcta atatat
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- (2) INFORMATION FOR SEQ ID NO:2555:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 11355 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2555:
- 1 tagatgctgg ggttgcagcc acgagcatag acacgacaga cacggtcctc gccatcttct 61 gttgagtact ggtcggaaca agaggatcgt ctgtagacag gatatgatca tcgtggcgca 121 tgtattactc atccttttgg gggccactga gatactgcaa gctgacttac ttcctgatga 181 aaagatttca cttctcccac ctgtcaattt caccattaaa gttactggtt tggctcaagt 241 tcttttacaa tggaaaccaa atcctgatca agagcaaagg aatgttaatc tagaatatca 301 agtgaaaata aacgctccaa aagaagatga ctatgaaacc agaatcactg aaagcaaatg 361 tgtaaccatc ctccacaaag gcttttcagc aagtgtgcgg accatcctgc agaacgacca 421 ctcactactg gccagcagct gggcttctgc tgaacttcat gccccaccag ggtctcctgg 481 aacctcaatt gtgaatttaa cttgcaccac aaacactaca gaagacaatt attcacgttt 541 aaggtcatac caagtttccc ttcactgcac ctggcttgtt ggcacagatg cccctgagga 601 cacgcagtat tttctctact ataggtatgg ctcttggact gaagaatgcc aagaatacag 661 caaagacaca ctggggagaa atatcgcatg ctggtttccc aggactttta tcctcagcaa 721 agggcgtgac tggcttgcgg tgcttgttaa cggctccagc aagcactctg ctatcaggcc 781 ctttgatcag ctgtttgccc ttcacgccat tgatcaaata aatcctccac tgaatgtcac 841 agcagagatt gaaggaactc gtctctctat ccaatgggag aaaccagtgt ctgcttttcc 901 aatccattgc tttgattatg aagtaaaaat acacaataca aggaatggat atttgcagat 961 agaaaaattg atgaccaatg cattcatctc aataattgat gatctttcta agtacgatgt 1021 tcaagtgaga gcagcagtga gctccatgtg cagagaggca gggctctgga gtgagtggag 1081 ccaacctatt tatgtgggaa atgatgaaca caagcccttg agagagtggt ttgtcattgt 1141 gattatggca accatctgct tcatcttgtt aattctctcg cttatctgta aaatatgtca 1201 tttatggatc aagttgtttc caccaattcc agcaccaaaa agtaatatca aagatctctt

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1261 tgtaaccact aactatgaga aagctggaat ttaaattcaa gcatgtttta acttttggtt
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 1381 taggtactgt tatcttcatt ttataaacaa ggcagctgaa gttgagagaa ataagtaacc
 1441 tgtcctaggt cacacaatta ggaaatgaca gatctggcag tctatttcca ggcagtctat
 1501 ttccacgagg tcatgagtgc gaaagaggga ctaggggaag aatgattaac tccagggagc
 1561 tgacttttct agtgtgctta cctgttttgc atctctcaag gatgtgccat gaagctgtag
 1621 ccaggtggaa ttgtaccaca gccctgacat gaacacctga tggcagctgc tgggttggag
 1681 cctagacaaa aacatgaaga accatggctg ctgcctgagc ccatcgtgct gtaattatag
 1741 aaaaccttct aagggaagaa tatgctgata tttttcagat aagtacccct tttataaaaa
 1801 tcctccaagt tagccctcga ttttccatgt aaggaaacag aggctttgag ataatgtctg
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    1 gatctttcta agtacgatgt tcaagtgaga gcagcagtga gctccatgtg cagagaggca
   61 gggctctgga gtgagtggag ccaacctatt tatgtgggaa atgatgaaca caagcccttg
 121 agagagtggt ttgtcattgt gattatggca accatctgct tcatcttgtt aattctctcg
 181 cttatctgta aaatatgtca tttatggatc aagttgtttc caccaattcc agcaccaaaa
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 421 tgactgtcac tttggcatcc tctgatgaac tcacacatgc ctcagtgcct cagtgaaaag
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   1 ccgctgcttc tcatcgcatg gccaccgcat ttctcaggcc aggcacattg agcattggtc
  61 ctgtgcctga cgctatgcta gatgctgggg ttgcagccac gagcatagac acgacagaca
 121 cggtcctcgc catcttctgt tgagtactgg tcggaacaag aggatcgtct gtagacaggc
 181 tacagattgt tttagattga agtttcctgt catgttcact catctttaaa tcctcatagt
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 301 ctgcaagetg acttacttcc tgatgaaaag atttcacttc teccaectgt caatttcacc
 361 attaaagtta ctggtttggc tcaagttctt ttacaatgga aaccaaatcc tgatcaagag
 421 caaaggaatg ttaatctaga atatcaagtg aaaataaacg ctccaaaaga agatgactat
 481 gaaaccagaa tcactgaaag caaatgtgta accatcctcc acaaaggctt ttcagcaagt
 541 gtgcggacca tcctgcagaa cgaccactca ctactggcca gcagctgggc ttctgctgaa
 601 cttcatgccc caccagggtc tcctggaacc tcaattgtga atttaacttg caccacaaac
 661 actacagaag acaattattc acgtttaagg tcataccaag tttcccttca ctgcacctgg
 721 cttgttggca cagatgcccc tgaggacacg cagtattttc tctactatag gtatggctct
 781 tggactgaag aatgccaaga atacagcaaa gacacactgg ggagaaatat cgcatgctgg
 841 tttcccagga cttttatcct cagcaaaggg cgtgactggc tttcggtgct tgttaacggc
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 961 caaataaatc ctccactgaa tgtcacagca gagattgaag gaactcgtct ctctatccaa
1021 tgggagaaac cagtgtctgc ttttccaatc cattgctttg attatgaagt aaaaatacac
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1261 agataacatc cagctttcct gccccacacc gtatctgaaa taaaaacaac agcagggata
1321 gcagatt
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  61 ctgtgcctga cgctatgcta gatgctgggg ttgcagccac gagcatagac acgacagaca
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301 ctgcaagctg acttacttcc tgatgaaaag atttcacttc tcccacctgt caatttcacc
361 attaaagtta ctggtttggc tcaagttctt ttacaatgga aaccaaatcc tgatcaagag
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481 gaaaccagaa tcactgaaag caaatgtgta accatcctcc acaaaggctt ttcagcaagt
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601 cttcatgccc caccagggtc tcctggaacc tcaattgtga atttaacttg caccacaaac
 661 actacagaag acaattattc acgtttaagg tcataccaag tttcccttca ctgcacctgg
 721 cttgttggca cagatgcccc tgaggacacg cagtattttc tctactatag gtatggctct
 781 tggactgaag aatgccaaga atacagcaaa gacacactgg ggagaaatat cgcatgctgg
 841 tttcccagga cttttatcct cagcaaaggg cgtgactggc tttcggtgct tgttaacggc
 901 tecaquaage actetgetat caggeeettt gateagetgt ttgeeettea egeeattgat
 961 caaataaatc ctccactgaa tgtcacagca gagattgaag gaactcgtct ctctatccaa
1021 tgggagaaac cagtgtctgc ttttccaatc cattgctttg attatgaagt aaaaatacac
1081 aatacaagga atggatattt gcagatagaa aaattgatga ccaatgcatt catctcaata
1141 attgatgatc tttctaagta cgatgttcaa gtgagagcag cagtgagctc catgtgcaga
1201 gaggcagggc tctggagtga gtggagccaa cctatttatg tgggtaagta gcttatgttt
1261 attttacatt ggcagccttc cttgtgatca aaaaaggtaa tcccagaaac gtacccgttc
1321 actcgtgggt cttaaaatgg tttcatatct ctattgtgac taattttctc tcggtctact
1381 gccttttcaa tcaggaatag atttgccatg aagccagtga agtttttaag tgtctaggct
1441 teteattagt gecaactete etagacetgg tgeetgtttt ttttecaagt tttgttteta
1501 cttctatcca ttttttaaat taaacttttt attttgaaat aattatcaca ctcacaagct
1561 gtgggaagaa ataatagaga tcctgtgtct ctttcatcca gttttcctca agggtaacat
1621 cttacaaaac tatagtacaa tagtggaata gaatatttgg tgtt
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 181 tacagattgt tttagattga agtttcctgt catgttcact catctttaaa tcctcatagt
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 421 caaaggaatg ttaatctaga atatcaagtg aaaataaacg ctccaaaaga agatgactat
 481 gaaaccagaa tcactgaaag caaatgtgta accatcctcc acaaaggctt ttcagcaagt
 541 gtgcggacca tcctgcagaa cgaccactca ctactggcca gcagctgggc ttctgctgaa
 601 cttcatgccc caccagggtc tcctggaacc tcaattgtga atttaacttg caccacaaac
 661 actacagaag acaattattc acgtttaagg tcataccaag tttcccttca ctgcacctgg
 721 cttgttggca cagatgcccc tgaggacacg cagtattttc tctactatag gtatggctct
 781 tggactgaag aatgccaaga atacagcaaa gacacactgg ggagaaatat cgcatgctgg
 841 tttcccagga cttttatcct cagcaaaggg cgtgactggc tttcggtgct tgttaacggc
 901 tccagcaagc actctgctat caggcccttt gatcagctgt ttgcccttca cgccattgat
 961 caaataaatc ctccactgaa tgtcacagca gagattgaag gaactcgtct ctctatccaa
1021 tgggagaaac cagtgtctgc ttttccaatc cattgctttg attatgaagt aaaaatacac
1081 aatacaagga atggatattt gcagatagaa aaattgatga ccaatgcatt catctcaata
1141 attgatgatc tttctaagta cgatgttcaa gtgagagcag cagtgagctc catgtgcaga
1201 gaggcagggc tctggagtga gtggagccaa cctatttatg tgggaaatga tgaacacaag
1261 cccttgagag agtggtttgt cattgtgatt atggcaacca tctgcttcat cttgttaatt
1321 ctctcgctta tctgtaaaat atgtcattta tggatcaagt tgtttccacc aattccagca
1381 ccaaaaagta atatcaaaga tctctttgta accactaact atgagaaagc tgggtccagt
1441 gagacggaaa ttgaagtcat ctgttatata gagaagcctg gagttgagac cctggaggat
1501 tctgtgtttt gactgtcact ttggcatcct ctgatgaact cacacatgcc tcagtgcctc
1561 agtgaaaaga acagggatgc tggctcttgg ctaagaggtg ttcagaattt aggcaacact
1621 caatttacct gcgaagcaat acaccagac acaccagtct tgtatctctt aaaagtatgg
1681 atgetteate caaategeet cacetacage agggaagttg acteatecaa geattttgee
1741 atgttttttc tccccatgcc gtacagggta gcacctcctc acctgccaat ctttgcaatt
1801 tgcttgactc acctcagact ttcattcaca acagacagct tttaaggcta acgtccagct
1861 gtatttactt ctggctgtgc cgtttggctg tttaagctgc caattgtagc actcagctac
1921 catctgagga agaaagcatt ttgcatcagc ctggagtgaa ccatgaactt ggattcaaga
1981 ctgtcttttc tatagcaa
  1 gtcttttgaa aggatctgcc gctgcttctc atcgcatggc caccgcattt ctcaggccag
 61 gcacattgag cattggtcct gtgcctgacg ctatgctaga tgctggggtt gcagccacga
121 gcatagacac gacagacacg gtcctcgcca tcttctgttg agtactggtc ggaacaagag
181 gatcgtctgt agacaggata tgatcatcgt ggcgcatgta ttactcatcc ttttgggggc
241 cactgagata ctgcaagctg acttacttcc tgatgaaaag atttcacttc tcccacctgt
301 caatttcacc attaaagtta ctggtttggc tcaagttctt ttacaatgga aaccaaatcc
361 tgatcaagag caaaggaatg ttaatctaga atatcaagtg aaaataaacg ctccaaaaga
421 agatgactat gaaaccagaa tcactgaaag caaatgtgta accatcctcc acaaaggctt
481 ttcagcaagt gtgcggacca tcctgcagaa cgaccactca ctactggcca gcagctgggc
541 ttctgctgaa cttcatgccc caccagggtc tcctggaacc tcaattgtga atttaacttg
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601 caccacaaac actacagaag acaattattc acgtttaagg tcataccaag tttcccttca
 661 ctgcacctgg cttgttggca cagatgcccc tgaggacacg cagtattttc tctactatag
 721 gtatggctct tggactgaag aatgccaaga atacagcaaa gacacactgg ggagaaatat
 781 cgcatgctgg tttcccagga cttttatcct cagcaaaggg cgtgactggc ttgcggtgct
 841 tgttaacggc tccagcaagc actctgctat caggcccttt gatcagctgt ttgcccttca
 901 cgccattgat caaataaatc ctccactgaa tgtcacagca gagattgaag gaactcgtct
 961 ctctatccaa tgggagaaac cagtgtctgc ttttccaatc cattgctttg attatgaagt
1021 aaaaatacac aatacaagga atggatattt gcagatagaa aaattgatga ccaatgcatt
1081 catctcaata attgatgatc tttctaagta cgatgttcaa gtgagagcag cagtgagctc
1141 catgtgcaga gaggcagggc tctggagtga gtggagccaa cctatttatg tgggtaagta
1201 gcttatgttt attttacatt ggcagccttc cttgtgatca aaaaaggtaa tcccagaaac
1261 gtacccgttc actcgtgggt cttaaaatgg tttcatatct ctattgtgac taattttctc
1321 tcggtctact gccttttcaa tcaggaatag atttgccatg aagccagtga agttttaag
1381 tgtctaggct tctcattagc gccac
   1 cggtcctcgc catcttctgt tgagtactgg tcggaacaag aggatcgtct gtagacagga
  61 tatgatcatc gtggcgcatg tattactcat ccttttgggg gccactgaga tactgcaagc
 121 tgacttactt cctgatgaaa agatttcact tctcccacct gtcaatttca ccattaaagt
 181 tactggtttg gctcaagttc ttttacaatg gaaaccaaat cctgatcaag agcaaaggaa
 241 tgttaatcta gaatatcaag tgaaaataaa cgctccaaaa gaagatgact atgaaaccag
 301 aatcactgaa agcaaatgtg taaccatcct ccacaaaggc ttttcagcaa gtgtgcggac
 361 catcctgcag aacgaccact cactactggc cagcagctgg gcttctgctg aacttcatgc
 421 cccaccaggg tctcctggaa cctcagttgt gaatttaact tgcaccacaa acactacaga
 481 agacaattat tcacgtttaa ggtcatacca agtttccctt cactgcacct ggcttgttgg
 541 cacagatgcc cctgaggaca cgcagtattt tctctactat aggtatggct cttggactga
 601 agaatgccaa gaatacagca aagacacact ggggagaaat atcgcatgct ggtttcccag
 661 gacttttatc ctcagcaaag gqcqtgactg qcttqcqqtg cttqttaacg qctccagcaa
 721 gcactctgct atcaggccct ttgatcagct gtttgccctt cacgccattg atcaaataaa
 781 tcctccactg aatgtcacag cagagattga aggaactcgt ctctctatcc aatgggagaa
 841 accagtgtct gcttttccaa tccattgctt tgattatgaa qtaaaaatac acaatacaag
 901 gaatggatat ttgcagatag aaaaattgat gaccaatgca ttcatctcaa taattgatga
 961 tetttetaag tacgatgtte aagtgagage ageagtgage teeatgtgea gagaggeagg
1021 gctctggagt gagtggagcc aacctattta tgtgggaaat gatgaacaca agcccttgag
1081 agagtggttt gtcattgtga ttatggcaac catctgcttc atcttgttaa ttctctcgct
1141 tatctgtaaa atatgtcatt tatggatcaa gttgtttcca ccaattccag caccaaaaag
1201 taatatcaaa gatctctttg taaccactaa ctatgagaaa gctgggtcca gtgagacgga
1261 aattgaagtc atctgttata tagagaagcc tggagttgag accctggagg attctgtgtt
1321 ttgactgtca ctttggcatc ctctgatgaa ctcacacatg cctcagtgcc tcagtgaaaa
1381 gaacagggat gctggctctt ggctaagagg tgttcagaat ttaggcaaca ctcaatttac
1441 ctgcgaagca atacacccag acacaccagt cttgtatctc ttaaaagtat ggatgcttca
1501 tccaaatcgc ctcacctaca gcagggaagt tgactcatcc aagcattttq ccatqttttt
1561 tetececatg cegtacaggg tageacetee teacetgeea atetttgeaa tttgettgae
1621 tcacctcaga cttttcattc acaacagaca gcttttaagg ctaacgtcca gctgtattta
1681 cttctggctg tgcccgtttg gctgtttaag ctgccaattg tagcactcag ctaccatctg
1741 aggaagaaag cattttgcat cagcctggag tgaatcatga acttggattc aagactgtct
1801 tttctatagc aagtgagagc cacaaattcc tcaccccct acattctaga atgatctttt
1921 gagaaattat ctcaagctcc agaggcctga tccaggatac atcatttgaa accaactaat
1981 ttaaaagcat aatagagcta atatat
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## (2) INFORMATION FOR SEQ ID NO:2556:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5191 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2556:
- 1 gaattcagta acccaggcat tatttatcc tcaagtctta ggttggttgg agaaagataa 61 caaaaagaaa catgattgtg cagaaacaga caaacctttt tggaaagcat ttgaaaatgg 121 cattcccct ccacagtgtg ttcacagtgt gggcaaattc actgctctgt cgtacttct 181 gaaaatgaag aactgttaca ccaaggtgaa ttatttataa attatgtact tgcccagaag 241 cgaacagact tttactatca taagaaccct tccttggtgt gctctttatc tacagaatcc

301 aagacctttc aagaaaggtc ttggattctt ttcttcagga cactaggaca taaagccacc

		ttgttgaaat				
		ttggtgtcct				
		tgctctttcc				
541	accccaacca	agcagctcca	gtgcaccact	ttctggagca	taaacatacc	ttaactttac
601	aacttgagtg	gccttgaata	ctgttcctat	ctggaatgtg	ctgttctctt	tcatcttcct
661	ctattgaagc	cctcctattc	ctcaatgcct	tgctccaact	gcctttggaa	gattctgctc
721	ttatgcctcc	actggaatta	atgtcttagt	accacttgtc	tattctgcta	tatagtcagt
		ctttcttctt				
841	tctatttcta	gatcccccac	attactcaga	aagttactcc	ataaatgttt	gtggaactga
901	tttctatgtg	aagacatgtg	ccccttcact	ctgttaacta	gcattagaaa	aacaaatctt
		gtagtatgcc				
		atttattta				
1081	ccatcatgat	agcatctgta	attaactgaa	aaaaaataat	tatgccatta	aaagaaaatc
		ttgttctaac				
1201	taaagttatc	tagaaataaa	aaagcataca	attgataatt	caccaaattg	tggagcttca
1261	gtattttaaa	tgtatattaa	aattaaatta	ttttaaagat	caaagaaaac	tttcgtcata
1321	ctccgtattt	gataaggaac	aaataggaag	tgtgatgact	caggtttgcc	ctgaggggat
1381	gggccatcag	ttgcaaatcg	tggaatttcc	tctgacataa	tgaaaagatg	agggtgcata
		tagggtgatg				
		cagagcacac				
		actgtgtgta				
		tgcagctctg				
		tgtgatcctt				
1741	ctttttattc	agaaacagaa	tataatctta	gcagtcaatt	aatgttaaat	tgaagattta
1801	gaaaaaacta	tatataacac	ttaggaaata	taaaggtttg	atcaatatag	atattctgct
1861	tttataattt	ataccaggta	gcatgcatat	atttaacgta	aataagtaat	ttatagtatg
1921	tcctattgag	aaccacggtt	acctatatta	tgtattaata	ttgagttgag	caaggtaact
1981	cagacaattc	cactccttgt	agtatttcat	tgacaagcct	cagatttgtc	attaattcct
		aagataccct				
2101	gttaattctt	tctgaaggca	atttctatgc	tggagagtct	tagcttgcct	actataaata
2161	acactgtggt	atcacagagg	attatgcaat	attgaccaga	taaaaatacc	atgaagatgt
2221	tgatattgta	caaaaagaac	tctaactctt	atataggaag	ttgttcaatg	ttgtcagtta
2281	tgactgtttt	ttaaaacaaa	gaactaactg	aggtcaaggg	ctaggagata	ttcaggaatg
		aaacatgatg				
2401	aagtagctgg	cagagctgtg	cctgttgata	aaatcaatcc	ttaatcactt	tttcccccaa
2461	caggtgcagt	tttgccaagg	agtgctaaag	aacttagatg	tcagtgcata	aagacatact
		ccaccccaaa				
		agaaattatg				
		aggaaggtgg				
		aaacaaaata				
		taaatgttat				
		aaactaaata				
		gagagctctg				
		agaggtaagt				
		aagtcagcct				
		gttaaaaaaa				
		tacatagttt				
		ctttgtcact				
		agttgagaat				
		aaccctactt				
		gctgagaatt				
		tgaaacttca				
		gccagatgca				
		tcattgtacc				
		acaaaaaaca				
		atacaaatag				
		tgaatgggtt				
		ttttgccata				
		ccctagtctg				
		atttctaagt				
		gtggaagcac				
4021	aacttattaa	cctatttatt	atttatgtat	ttatttaagc	atcaaatatt	tgtgcaagaa

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4081 tttggaaaaa tagaagatga atcattgatt gaatagttat aaagatgtta tagtaaattt
4141 attttatttt agatattaaa tgatgtttta ttagataaat ttcaatcagg gtttttagat
4201 taaacaaaca aacaattggg tacccagtta aattttcatt tcagatatac aacaaataat
4261 tttttagtat aagtacatta ttgtttatct gaaattttaa ttgaactaac aatcctagtt
4321 tqatactccc agtcttqtca ttqccaqctq tqttqqtaqt gctqtqttqa attacggaat
4381 aatgagttag aactattaaa acagccaaaa ctccacagtc aatattagta atttcttgct
4441 ggttgaaact tgtttattat gtacaaatag attcttataa tattatttaa atgactgcat
4501 ttttaaatac aaggetttat atttttaact ttagtgtttt tatgtgetet ccaaattttt
4561 tttactgttt ctgattgtat ggaaatataa aagtaaatat gaaacattta aaatataatt
4621 tgttqtcaaa gtaatcaaqt gtttgtcttt tttttagttt tagcttattg ggattctctt
4681 tqtttatatt taaaattata ctttqattta qaaaacataa atgcttcccc ttagcatttt
4741 gttatggaaa attacaaact tttattttta gaaaacagaa ctcctttcca gaaataggtt
4801 acaaacagta gtgtcctcca cagaatgttg gaaatgtttt caactcccca ctgtatacta
4861 tcttgctaat aagtctgtct tcagatttcg attaaccggt ttgtatgtct gtgcacttta
4921 gcatagctgg acattaaaga ggaaagagag tacatattat aagttgctta tcagtaactg
4981 aggagtaaaa ctgataaatg tgaggcaaag aagtttaaaa tatggttaaa gcctaagcat
5041 atttgcaaac aaatcaaaca atactctgag aagtaaaaac ataattattt aattaacaaa
5101 tttcagtgga taaattttat aacaaattag acacagttga aaataaaatt agaaaactag
5161 aaaatagaac aaaagaaact tctggaattc a
```

- (2) INFORMATION FOR SEQ ID NO:2557:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2007 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2557:
- 1 tattcatcaa gtgccctcta gctgttaagt cactctgatc tctgactgca gctcctactg 61 ttggacacac ctggccggtg cttcagttag atcaaaccat tgctgaaact gaagaggaca 121 tgtcaaatat tacagatcca cagatgtggg attttgatga tctaaatttc actggcatgc 181 cacctgcaga tgaagattac agcccctgta tgctagaaac tgagacactc aacaagtatg 241 ttgtgatcat cgcctatgcc ctagtgttcc tgctgagcct gctgggaaac tccctggtga 301 tgctggtcat cttatacagc agggtcggcc gctccgtcac tgatgtctac ctgctgaacc 361 tggccttggc cgacctactc tttgccctga ccttgcccat ctgggccgcc tccaaggtga 421 atggctggat ttttggcaca ttcctgtgca aggtggtctc actcctgaag gaagtcaact 481 totacagtgg catoctgotg ttggcotgca toagtgtgga cogttacotg gocattgtoo 541 atgccacacg cacactgace cagaagegte acttggtcaa gtttgtttgt cttggctgct 601 ggggactgtc tatgaatctg tecetgeeet tetteetttt eegeeagget taccateeaa 661 acaattccaq tccaqtttqc tatqaqqtcc tgggaaatga cacaqcaaaa tggcggatgg 721 tqttqcqqat cctqcctcac acctttqqct tcatcqtqcc qctqtttqtc atqctqttct 781 gctatggatt caccetgcgt acactgttta aggcccacat ggggcagaag caccgagcca 841 tgagggtcat ctttgctgtc gtcctcatct tcctgctttg ctggctgccc tacaacctgg 901 tcctgctggc agacaccctc atgaggaccc aggtgatcca ggagagctgt gagcgccgca 961 acaacatogg cogggoootg gatgocactg agattotggg atttotocat agotgootca 1021 accocatcat ctacgccttc atcggccaaa attttcgcca tggattcctc aagatcctgg 1081 ctatgcatgg cctggtcagc aaggagttct tggcacgtca tcgtgttacc tcctacactt 1141 cttcgtctgt caatgtctct tccaacctct gaaaaccatc gatgaaggaa tatctcttct 1201 cagaaggaaa gaataaccaa caccctgagg ttgtgtgtgg aaggtgatct ggctctggac 1261 aggcactatc tgggttttgg ggggacgcta taggatgtgg ggaagttagg aactggtgtc 1321 ttcaggggcc acaccaacct tctgaggagc tgttgaggta cctccaagga ccggcctttg 1381 cacctccatg gaaacgaagc accatcattc ccgttgaacg tcacatcttt aacccactaa 1441 ctggctaatt agcatggcca catctgagcc ccgaatctga cattagatga gagaacaggg 1501 ctgaagctgt gtcctcatga gggctggatg ctctcgttga ccctcacagg agcatctcct 1561 caactetqaq tgttaaqeqt tqaqccacca aqetqqtqqc tetqtqtqct etqatecqaq 1621 ctcagggggg tggttttccc atctcaggtg tgttgcagtg tctgctggag acattgaggc 1681 aggcactgcc aaaacatcaa cctgccagct ggccttgtga ggagctggaa acacatgttc 1741 cccttggggg tggtggatga acaaagagaa agagggtttg gaagccagat ctatgccaca 1801 agaaccccct ttacccccat gaccaacatc gcagacacat gtgctggcca cctgctgagc 1861 cccaaqtqqa acqaqacaaq caqcccttaq cccttcccct ctgcaqcttc caggctggcg 1921 tqcaqcatca qcatccctaq aaaqccatgt qcagccacca gtccattggg caggcagatg 1981 ttcctaataa agcttctgtt ccgtgct

# (2) INFORMATION FOR SEQ ID NO:2558: (i) SEOUENCE CHARACTERISTICS: (A) LENGTH: 1750 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2558:

1 cctacaggtg aaaagcccag cgacccagtc aggatttaag tttacctcaa aaatggaaga 61 ttttaacatg gagagtgaca gctttgaaga tttctggaaa ggtgaagatc ttagtaatta 121 cagttacage tetaceetge eccettttet actagatgee geceeatgtg aaccagaate 181 cctggaaatc aacaagtatt ttgtggtcat tatctatgcc ctggtattcc tgctgagcct 241 gctqqqaaac tccctcqtqa tqctqqtcat cttatacaqc aqqqtcqqcc qctccqtcac 301 tgatgtctac ctgctgaacc tagccttggc cgacctactc tttgccctga ccttgcccat 361 ctgggccgcc tccaaggtga atggctggat ttttggcaca ttcctgtgca aggtggtctc 421 actcctgaag gaagtcaact tctatagtgg catcctgcta ctggcctgca tcagtgtgga 481 ccgttacctg gccattgtcc atgccacacg cacactgacc cagaagcgct acttggtcaa 541 atteatatgt cteageatet ggggtetgte ettgeteetg geeetgeetg tettaetttt 601 ccgaaggacc gtctactcat ccaatgttag cccagcctgc tatgaggaca tgggcaacaa 661 tacagcaaac tggcggatgc tgttacggat cctgccccag tcctttggct tcatcgtgcc 721 actgctgatc atgctgttct gctacggatt caccctgcgt acgctgttta aggcccacat 781 ggggcagaag caccgggcca tgcgggtcat ctttgctgtc gtcctcatct tcctgctttg 841 ctggctgccc tacaacctgg tcctgctggc agacaccctc atgaggaccc aggtgatcca 901 ggagacctgt gagcgccgca atcacatcga ccgggctctg gatgccaccg agattctggg 961 catcetteae agetgeetea acceceteat etacgeette attggeeaga agtttegeea 1021 tggactcctc aagattctag ctatacatgg cttgatcagc aaggactccc tgcccaaaga 1081 cagcaggeet teetttgttg getettette agggeacaet teeactaete tetaagaeet 1141 cctgcctaag tgcagcccg tggggttcct cccttctctt cacagtcaca ttccaagcct 1201 catgtccact ggttcttctt ggtctcagtg tcaatgcagc ccccattgtg gtcacaggaa 1261 gcagaggagg ccacgttctt actagtttcc cttgcatggt ttagaaagct tgccctggtg 1321 cctcacccct tgccataatt actatgtcat ttgctggagc tctgcccatc ctgcccctga 1381 gcccatggca ctctatgttc taagaagtga aaatctacac tccagtgaga cagctctgca 1441 tactcattag gatggctagt atcaaaagaa agaaaatcag gctggccaac gggatgaaac 1501 cctgtctcta ctaaaaatac aaaaaaaaa aaaaaaatta gccgggcgtg gtggtgagtg 1561 cctgtaatca cagctacttg ggaggctgag atgggagaat cacttgaacc cgggaggcag 1621 aggttgcagt gagccgagat tgtgcccctg cactccagcc tgagcgacag tgagactctg 1681 teteagteea tgaagatgta gaggagaaac tggaactete gagegttget gggggggatt 1741 gtaaaatggt

## (2) INFORMATION FOR SEQ ID NO: 2559:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1807 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2559:
- 1 ggatccaagt aggattgagt gtcctgtagt tattatccac agggaacatt ctacaaagtt 61 ttgggagact gtaatgtcat gggaaatgca agaatatgtg tccagcatgg aagggaatca 121 gtatggaagt cttttgataa attgtggcat ttatcactaa cattgcctca aaactttaga 181 ctacctgcca tatacaaatt agaggtgaaa attacttcca tgtaatatac aagccaacac 241 aaagaatcct atcccagttt cttggatgga taggcaagaa tctgggtaag gtttattgtg 301 caataateet ettetetett etataggeea ggatttaagt ttaeeteaaa aatggaaaat 361 tttggctggg aaaattacat gtgggaagac atcttcagtg gagattttag taattacagt 421 ttcagctatg accetacece ttttctacta gattctgece catgttggec agaateeeta 481 gaaatcaatt atgttttgat catcatctat gccctgatgt ttctactgaa cgtgatgtga 541 aactccctgc cgatgctggt catcttattc agctgagtca gccactgtca ccgatgtcta 601 cctgctgacc ctggccttgg ccgacctgtt cttttccctg acattgccca tcttggctgc 661 ctccaagatg aatggctgga tttttggcac aatctgtgcc aggtggtcta gctcctgaag 721 gaagtcaact tctacggtgg tattctacta ctggcctgcc gcagcatgga ctgttacctg 781 gccattgtcc atgccacacg cacactgacc cagcagcgcc acttggtcaa gttcatatgt 841 ctgggtttgt ggaacctgtt cctgttactg tccctacgca tcttgctttt ccgaaggacc 901 ttctacccat ccaatqttag cccagtctgc tatgaggaca tgggcaacaa tacagcaaac 961 tggtggatgc tgttacggat cctgccccag tcctttggct tcatcgtgcc gctgcgatca 1021 tgctgttctg ctacagattc accctgcata cgctgtttaa ggcccatatg gggcagaagc

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(2) INFORMATION FOR SEQ ID NO:2560:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1510 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2560:
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(2) INFORMATION FOR SEQ ID NO: 2561:
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     (A) LENGTH: 2245 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2561:
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- (2) INFORMATION FOR SEQ ID NO: 2562:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 9319 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2562:
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(2) INFORMATION FOR SEQ ID NO:2563:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 591 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2563:
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(2) INFORMATION FOR SEQ ID NO:2564:
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    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2564:
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## (2) INFORMATION FOR SEQ ID NO:2565:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 17073 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2565:

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16981 gcagtacctc tgctgccact gtgcacagct gcttaaataa aagttgctct ctaataccac
17041 cgactcgccc ttgaattctt tcctgggtga agc
```

- (2) INFORMATION FOR SEQ ID NO:2567:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2042 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2567:
- 1 aattcagaac tcctcagccc cccaagaaaa aaatatcccc gtggaaattc ctttttaatg 61 accgaggcgg gggaaatatg cgtctctgga tggccagtga ctcgcagccc ccttccccga 121 taggaaggge ctgcgcgtcc ggggaccctt cgcttcccct tctgctgcgc gacctccctg 181 gcccctcgga gatctccatg gcgacgccgc gcgcgcccca caacaggaaa gccttaggcg 241 gcgcggcttg gtgctcggag acttaagagt acccagcccc tcgacgtggt ggatgtcgag 301 tcttggggtc acacgcacag gcggtggcca agcaaacacc cgctcatatt tagtgcatga 361 gcctgggttc gagttgccgg agcctcgcgc gtagggcagg ggttcgagcg ccccttctcc 421 ctgcctcgcc tctgcgcctg ggggctgctg cctcagtttc ccagcgacag gcagggattt 481 cgagcgtccc cctcccctcc ctcgtcaaga tccaagctag ctgcctcagt ttccccgcgg 541 agcctgggac gccagcggag gggctcggcg cgtagggatc acgcagcttc cttcctttt 601 ctgggagctg taaagacgcc tccgccaacg ccgaaagggg aagcgaggag gccgccgggg 661 tgagtgccct cgggtgtaga gagaggacgc cgatttcccc ggacgtggtg agaccgcgct 781 gagaaatgcc cgtgtcagct aggtgtggac gtgacctagg gggaggggca tccctcagtg 841 gagggagccc ggggaggatt cctgggcccc cacccaggca gggggctcat ccactcgatt 901 aaagaggcct gcgtaagctg gagagggagg acttgagttc ggaccccctc gcagcctgga 961 gtctcagttt accgctttgt gaaatggaca caataacagt ctccactctc cggggaagtt 1021 ggcagtattt aaaagtactt aataaacgcc ttagcgcggt gtagaccgtg attcaagctt 1081 agcctggccg ggaaacggga ggcgtggagg ccgggagcag cccccggggt catcgccctg 1141 ccaccgccgc ccgattgctt tagcttggaa attccggagc tgaagcggcc agcgagggag

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1201 gatgacctc tcggcccggg caccctgtca gtccggaaat aactgcagca tttgttccgg
1261 aggggaaggc gcgaggttc cgggaaagca gcaccgccc ttggccccca ggtggctagc
1321 gctataaagg atcacgcgc ccagtcgacg ctgagctct ctgctactca gagttgcaac
1381 ctcagcctcg ctatggctc cagcagccc cggcccgcgc tgcccgcact cctggtcctg
1441 ctcggggctc tgttcccagg tgagtcgggg tggggattgc cgtcgggca gttctccgaa
1501 gcccgggagg accggctcc gggtcaggtc atgcatgctt aggtagctgt ttatgggaag
1561 gaggggctag agacagcgat tgaaagcaac agccagtagg ttcgaatcca gaccctgcat
1621 acctccacgt gtggccttgg gctatagatt gcagctttaa aaaagggtag ggggttggag
1681 atggaggga ggggcggcc tcgtttgtt gcccaggccg gtcttgaact ccgggggtct
1741 agccttacct cctgcctcag cctcccgagt agctggatg aggtgtgaac cacgccttgc
1801 ttggctagat tgcgtctct acagttctc agctgtaaaa cgggaaacgt tatagcggcc
1861 acctggcagg gtatcttggc ccagcgcagc acctggccc aggactcgat catgatggt
1921 tgggaacttg gctctgtcc tcccaacaa ggcttaaggg acccccaccc ccctcaagat
1981 gtatattctg ttcctcatcc tctctgccc tggggaagtc cagggctgct tctacttggg
2041 gg
```

- (2) INFORMATION FOR SEQ ID NO:2568:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2986 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2568:

```
1 gcgccccagt cgacgctgag ctcctctgct actcagagtt gcaacctcag cctcgctatg
  61 gctcccagca gcccccggcc cgcgctgccc gcactcctgg tcctgctcgg ggctctgttc
 121 ccaggacetg gcaatgccca gacatetgtg tececeteaa aagteateet geeeegggga
 181 ggctccgtgc tggtgacatg cagcacctcc tgtgaccagc ccaagttgtt gggcatagag
 241 accccgttgc ctaaaaagga gttgctcctg cctgggaaca accggaaggt gtatgaactg
 301 agcaatgtgc aagaagatag ccaaccaatg tgctattcaa actgccctga tgggcagtca
 361 acagetaaaa cetteeteac egtgtaetgg acteeagaac gggtggaact ggcaeeeete
 421 ccctcttggc agccagtggg caagaacctt accctacgct gccaggtgga gggtggggca
 481 ccccgggcca acctcaccgt ggtgctgctc cgtggggaga aggagctgaa acgggagcca
 541 gctgtggggg agcccgctga ggtcacgacc acggtgctgg tgaggagaga tcaccatgga
 601 gccaatttct cgtgccgcac tgaactggac ctgcggcccc aagggctgga gctgtttgag
 661 aacacctcgg ccccctacca gctccagacc tttgtcctgc cagcgactcc cccacaactt
 721 gtcagccccc gggtcctaga ggtggacacg caggggaccg tggtctgttc cctggacggg
 781 ctgttcccag tctcggaggc ccaggtccac ctggcactgg gggaccagag gttgaacccc
 841 acagtcacct atggcaacga ctccttctcg gccaaggcct cagtcagtgt gaccgcagag
 901 gacgagggca cccagcggct gacgtgtgca gtaatactgg ggaaccagag ccaggagaca
 961 ctgcagacag tgaccatcta cagctttccg gcgcccaacg tgattctgac gaagccagag
1021 gtctcagaag ggaccgaggt gacagtgaag tgtgaggccc accctagagc caaggtgacg
1081 ctgaatgggg ttccagccca gccactgggc ccgagggccc agctcctgct gaaggccacc
1141 ccagaggaca acgggcgcag cttctcctgc tctgcaaccc tggaggtggc cggccagctt
1201 atacacaaga accagacccg ggagcttcgt gtcctgtatg gcccccgact ggacgagagg
1261 gattgtccgg gaaactggac gtggccagaa aattcccagc agactccaat gtgccaggct
1321 tgggggaacc cattgcccga gctcaagtgt ctaaaggatg gcactttccc actgcccatc
1381 ggggaatcag tgactgtcac tcgagatctt gagggcacct acctctgtcg ggccaggagc
1441 actcaagggg aggtcacccg cgaggtgacc gtgaatgtgc tctccccccg gtatgagatt
1501 gtcatcatca ctgtggtagc agccgcagtc ataatgggca ctgcaggcct cagcacgtac
1561 ctctataacc gccagcggaa gatcaagaaa tacagactac aacaggccca aaaagggacc
1621 cccatgaaac cgaacacaca agccacgcct ccctgaacct atcccgggac agggcctctt
1681 cctcggcctt cccatattgg tggcagtggt gccacactga acagagtgga agacatatgc
1741 catgcagcta cacctaccgg ccctgggacg ccggaggaca gggcattgtc ctcagtcaga
1801 tacaacagca tttggggcca tggtacctgc acacctaaaa cactaggcca cgcatctgat
1861 ctgtagtcac atgactaagc caagaggaag gagcaagact caagacatga ttgatggatg
1921 ttaaagtcta gcctgatgag aggggaagtg gtgggggaga catagcccca ccatgaggac
1981 atacaactgg gaaatactga aacttgctgc ctattgggta tgctgaggcc cacagactta
2041 cagaagaagt ggccctccat agacatgtgt agcatcaaaa cacaaaggcc cacacttcct
2101 gacggatgcc agcttgggca ctgctgtcta ctgaccccaa cccttgatga tatgtattta
2161 ttcatttgtt attttaccag ctatttattg agtgtctttt atgtaggcta aatgaacata
2221 ggtctctggc ctcacggagc tcccagtcca tgtcacattc aaggtcacca ggtacagttg
2281 tacaggttgt acactgcagg agagtgcctg gcaaaaagat caaatggggc tgggacttct
```

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2341 cattggccaa cctgccttc cccagaagga gtgattttc tatcggcaca aaagcactat 2401 atggactggt aatggttcac aggttcagag attacccagt gaggccttat tcctcccttc 2461 ccccaaaac tgacacctt gttagccacc tccccacca catacatttc tgccagtgtt 2521 cacaatgaca ctcagcggtc atgtctggac atgagtgccc agggaatatg cccaagctat 2581 gccttgtcct cttgtcctgt ttgcattca ctgggagctt gcactattgc agctccagtt 2641 tcctgcagtg atcagggtc tgcaagcagt ggggaagggg gccaaggtat tggaggactc 2701 cctcccagct ttggaagggt catcgcgtg tgtgtgtgt tgtatgtgta gacaagctct 2761 cgctctgtca cccaggctgg agtgcagtgg tgcaatcatg gttcactgca gtcttgacct 2821 tttgggctca agtgatcct ccacctcagc ctcctgagta gctgggacca taggctcaca 2881 acaccacacc tggcaaattt gatttttt ttttttca gagacggggt ctcgcaacat 2941 tgcccagact tccttgtgt tagttaataa agctttctca actgcc
```

## (2) INFORMATION FOR SEQ ID NO: 2569:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3003 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2569:

```
1 gctataagga tcacgcgccc cagtcgacgc tgagctcctc tgctactcag agttgcaacc
  61 tcagcctcgc tatggctccc agcagccccc ggcccgcgct gcccgcactc ctggtcctgc
 121 tcggggctct gttcccagga cctggcaatg cccagacatc tgtgtccccc tcaaaagtca
 181 tcctgccccg gggaggctcc gtgctggtga catgcagcac ctcctgtgac cagcccaagt
 241 tgttgggcat agagaccccg ttgcctaaaa aggagttgct cctgcctggg aacaaccgga
 301 aggtgtatga actgagcaat gtgcaagaag atagccaacc aatgtgctat tcaaactgcc
 361 ctgatgggca gtcaacagct aaaaccttcc tcaccgtgta ctggactcca gaacgggtgg
 421 aactggcacc cctcccctct tggcagccag tgggcaagaa ccttacccta cgctgccagg
 481 tggagggtgg ggcaccccgg gccaacctca ccgtggtgct gctccgtggg gagaaggagc
 541 tgaaacggga gccagctgtg ggggagcccg ctgaggtcac gaccacggtg ctggtgagga
 601 gagatcacca tggagccaat ttctcgtgcc gcactgaact ggacctgcgg ccccaagggc
 661 tggagctgtt tgagaacacc tcggccccct accagctcca gacctttgtc ctgccagcga
 721 ctccccaca acttgtcagc ccccgggtcc tagaggtgga cacgcagggg accgtggtct
 781 gttccctgga cgggctgttc ccagtctcgg aggcccaggt ccacctggca ctgggggacc
 841 agaggttgaa ccccacagtc acctatggca acgactcctt ctcggccaag gcctcagtca
 901 gtgtgaccgc agaggacgag ggcacccagc ggctgacgtg tgcagtaata ctggggaacc
 961 agagccagga gacactgcag acagtgacca tctacagctt tccggcgccc aacgtgattc
1021 tgacgaagcc agaggtctca gaagggaccg aggtgacagt gaagtgtgag gcccacccta
1081 gagccaaggt gacgctgaat ggggttccag cccagccact gggcccgagg gcccagctcc
1141 tgctgaaggc caccccagag gacaacgggc gcagcttctc ctgctctgca accctqgaqq
1201 tggccggcca gcttatacac aagaaccaga cccgggagct tcqtqtcctq tatqqccccc
1261 gactggacga gagggattgt ccgggaaact ggacgtggcc agaaaattcc cagcagactc
1321 caatgtgcca ggcttggggg aacccattgc ccgagctcaa gtgtctaaag gatggcactt
1381 tcccactgcc catcggggaa tcagtgactg tcactcgaga tcttgagggc acctacctct
1441 gtcgggccag gagcactcaa ggggaggtca cccgcaaggt gaccgtgaat gtgctctccc
1501 cccggtatga gattgtcatc atcactgtgg tagcagccgc agtcataatg ggcactgcag
1561 gcctcagcac gtacctctat aaccgccagc ggaagatcaa gaaatacaga ctacaacagg
1621 cccaaaaagg gaccccatg aaaccgaaca cacaagccac gcctccctga acctatcccg
1681 ggacagggcc tettectegg cetteceata ttggtggcag tggtgccaca etgaacagag
1741 tggaagacat atgccatgca gctacaccta ccggccctgg gacgccggag gacagggcat
1801 tgtcctcagt cagatacaac agcatttggg gccatggtac ctgcacacct aaaacactag
1861 gccacgcatc tgatctgtag tcacatgact aagccaagag gaaggagcaa gactcaagac
1921 atgattgatg gatgttaaag tctagcctga tgagagggga agtggtgggg gagacatagc
1981 cccaccatga ggacatacaa ctgggaaata ctgaaacttg ctgcctattg ggtatgctga
2041 ggccccacag acttacagaa gaagtggccc tccatagaca tgtgtagcat caaaacacaa
2101 aggcccacac ttcctgacgg atgccagctt gggcactgct gtctactgac cccaaccctt
2161 gatgatatgt atttattcat ttgttatttt accagctatt tattgagtgt cttttatgta
2221 ggctaaatga acataggtct ctggcctcac ggagctccca gtccatgtca cattcaaggt
2281 caccaggtac agttgtacag gttgtacact gcaggagagt gcctggcaaa aagatcaaat
2341 ggggctggga cttctcattg gccaacctgc ctttccccag aaggagtgat ttttctatcg
2401 gcacaaaagc actatatgga ctggtaatgg ttcacaggtt cagagattac ccagtgaggc
2461 cttatteete cetteecece aaaactgaca eetttgttag ceaceteece acceacatae
2521 atttctgcca gtgttcacaa tgacactcag cggtcatgtc tggacatgag tgcccaggga
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2581 atatgcccaa gctatgcctt gtcctcttgt cctgtttgca tttcactggg agcttgcact
 2641 attgcagctc cagtttcctg cagtgatcag ggtcctgcaa gcagtgggga agggggccaa
 2701 ggtattggag gactccctcc cagctttgga agcctcatcc gcgtgtgtgt gtgtgtgt
 2761 atgtgtagac aagctctcgc tctgtcaccc aggctggagt gcagtggtgc aatcatggtt
 2821 cactgoagtc ttgacctttt gggctcaagt gatcctccca cctcaqcctc ctgagtagct
 2881 gggaccatag gctcacaaca ccacacctgg caaatttgat ttttttttt tttttcaqaq
 2941 acggggtctc gcaacattgc ccagacttcc tttgtgttag ttaataaagc tttctcaact
 3001 gcc
(2) INFORMATION FOR SEQ ID NO:2570:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1846 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2570:
    1 ctcagcctcg ctatggctcc cagcagcccc cggcccgcgc tgcccgcact cctggtcctg
   61 ctcggggctc tgttcccagg acctggcaat gcccagacat ctgtgtcccc ctcaaaagtc
  121 atcctgcccc ggggaggctc cgtgctggtg acatgcagca cctcctgtga ccagcccaag
  181 ttgttgggca tagagacccc gttgcctaaa aaggagttgc tcctgcctgg gaacaaccgg
  241 aaggtgtatg aactgagcaa tgtgcaagaa gatagccaac caatgtgcta ttcaaactgc
  301 cctgatgggc agtcaacagc taaaaccttc ctcaccgtgt actggactcc agaacgggtg
  361 gaactggcac ccctcccctc ttggcagcca gtgggcaaga accttaccct acgctgccag
  421 gtggaggtg gggcaccccg ggccaacctc accgtggtgc tgctccgtgg ggagaaggag
  481 ctgaaacggg agccagctgt gggggagccc gctgaggtca cgaccacggt gctggtgagg
 541 agagatcacc atggagccaa tttctcgtgc cgcactgaac tggacctgcg gccccaaggg
 601 ctggagctgt ttgagaacac ctcggccccc taccagctcc agacctttgt cctgccagcg
 661 actccccac aacttgtcag ccccgggtc ctagaggtgg acacgcaggg gaccgtggtc
 721 tgttccctgg acgggctgtt cccagtctcg gaggcccagg tccacctggc actgggggac
 781 cagaggttga accccacagt cacctatggc aacgactcct tctcggccaa ggcctcagtc
 841 agtgtgaccg cagaggacga gggcacccag cggctgacgt gtgcagtaat actggggaac
 901 cagagecagg agacactgca gacagtgace atctacaget ttccggegee caacgtgatt
 961 ctgacgaagc cagaggtctc agaagggacc gaggtgacag tgaagtgtga ggcccaccct
1021 agagccaagg tgacgctgaa tggggttcca gcccagccac tgggcccgag ggcccagctc
1081 ctgctgaagg ccaccccaga ggacaacggg cgcagcttct cctgctctgc aaccctggag
1141 gtggccggcc agcttataca caagaaccag acccgggagc ttcgtgtcct gtatggccc
1201 cgactggacg agagggattg tccgggaaac tggacgtggc cagaaaattc ccagcagact
1261 ccaatgtgcc aggcttgggg gaacccattg cccgagctca agtgtctaaa ggatggcact
1321 ttcccactgc ccatcgggga atcagtgact gtcactcgag atcttgaggg cacctacctc
1381 tgtcgggcca ggagcactca aggggaggtc acccgcgagg tgaccgtgaa tgtgctctcc
1441 ccccggtatg agattgtcat catcactgtg gtagcagccg cagtcataat gggcactgca
1501 ggcctcagca cgtacctcta taaccgccag cggaagatca agaaatacag actacaacag
1561 gcccaaaaag ggacccccat gaaaccgaac acacaagcca cgcctccctg aacctatccc
1621 gggacagggc ctcttcctcg gccttcccat attggtggca gtggtgccac actgaacaga
1681 gtggaagaca tatgccatgc agctacacct accggccctg ggacgccgga ggacagggca
1741 ttgtcctcag tcagatacaa cagcatttgg ggccatggta cctgcacacc taaaacacta
1801 ggccacgcat ctgatctgta gtcacatgac taagccaaga ggaagg
(2) INFORMATION FOR SEQ ID NO:2571:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 9877 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2571:
   1 aattcagaac tcctcagccc cccaagaaaa aaatatcccc gtggaaattc ctttttaatg
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1 aattcagaac tcctcagcc cccaagaaaa aaatatccc gtggaaattc cttttaatg
61 accgaggcgg gggaaatatg cgtctctgga tggccagtga ctcgcagcc ccttccccga
121 taggaagggc ctgcgcgtcc ggggaccctt cgcttccct tctgctgcgc gacctccctg
181 gcccctcgga gatctccatg gcgacgccgc gcgcgcccca caacaggaaa gccttaggcg
241 gcgcggcttg gtgctcggag acttaagagt acccagcccc tcgacgtggt ggatgtcgag
301 tcttggggtc acacgcacag gcggtggcca agcaaacacc cgctcatatt tagtgcatga
361 gcctgggttc gagttgccgg agcctcgcg gtagggcagg ggttcgagcg ccccttctcc
421 ctgcctcgcc tctgcgcctg ggggctgctg cctcagtttc ccagcgacag gcagggattt

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481 cgagcgtccc cctcccctcc ctcgtcaaga tccaagctag ctgcctcagt ttccccgcgg
 541 agectqqqac qecaqeqqaq qqqeteqqeq eqtaqqqate aegeagette etteetttt
 601 ctqqqaqctq taaaqacqcc tccqccaacq ccqaaagggg aagcgaggag gccgccgggg
 661 tgagtgccct cgggtgtaga gagaggacgc cgatttcccc ggacgtggtg agaccgcgct
721 tegteactee caeggitage ggtegeeggg aggitgeetgg etetgetetg geegettete
781 gagaaatgcc cgtgtcagct aggtgtggac gtgacctagg gggaggggca tccctcagtg
841 gagggagccc ggggaggatt cctgggcccc cacccaggca gggggctcat ccactcgatt
901 aaagaggcct gcgtaagctg gagagggagg acttgagttc ggacccctc gcagcctgga
961 gtctcagttt accgctttgt gaaatggaca caataacagt ctccactctc cggggaagtt
1021 ggcagtattt aaaagtactt aataaacgcc ttagcgcggt gtagaccgtg attcaagctt
1081 agcctggccg ggaaacggga ggcgtggagg ccgggagcag cccccggggt catcgccctg
1141 ccaccgccgc ccgattgctt tagcttggaa attccggagc tgaagcggcc agcgagggag
1201 gatgaccete teggeeeggg caccetgtea gteeggaaat aactgeagea tttgtteegg
1261 ccaatgtgcc aggcttgggg gaacccattg cccgagctca agtgtctaaa ggatggcact
1321 ttcccactgc ccatcgggga atcagtgact gtcactcgag atcttgaggg cacctacctc
1381 tgtcgggcca ggagcactca aggggaggtc acccgcgagg tgaccgtgaa tgtgctctcc
1441 ccccggtatg agattgtcat catcactgtg gtagcagccg cagtcataat gggcactgca
1501 ggcctcagca cgtacctcta taaccgccag cggaagatca agaaatacag actacaacag
1561 gcccaaaaaq ggaccccat gaaaccgaac acacaagcca cgcctccctg aacctatccc
1621 gggacagggc ctcttcctcg gccttcccat attggtggca gtggtgccac actgaacaga
1681 gtggaagaca tatgccatgc agctacacct accggccctg ggacgccgga ggacagggca
1741 ttgtcctcag tcagatacaa cagcatttgg ggccatggta cctgcacacc taaaacacta
1801 ggccacgcat ctgatctgta gtcacatgac taagccaaga ggaagg
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#### (2) INFORMATION FOR SEQ ID NO:2572:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4704 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2572:

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 1981 tcgggagcag gtggtctctg agcagaccct ggtacagtcc aacatctgcc tttacattga
2041 caaacgttct aagaacctgc ttgggagccg tgacctccaa agctctgtga ccttggacct
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2161 tctgagccga gtccgagtcc tcgggctgaa ggcacactgt gaaaacttca acctgctgct
2221 cccgagetge gtggaggaet ctgtgaecce cattacettg cgtctgaact teaegetggt
2281 gggcaagccc ctccttgcct tcagaaacct gcggcctatg ctggccgcac tggctcagag
2341 atacttcacg gcctccctac cctttgagaa gaactgtgga gccgaccata tctgccagga
2401 caatctcggc atctccttca gcttcccagg cttgaagtcc ctgctggtgg ggagtaacct
2461 ggagctgaac gcagaagtga tggtgtggaa tgacggggaa gactcctacg gaaccaccat
2521 caccttetee cacceegeag gactgteeta eegetaegtg geagagggee agaaacaagg
2581 gcagctgcgt tccctgcacc tgacatgtga cagcgcccca gttgggagcc agggcacctg
2641 gagcaccage tgcagaatca accacctcat cttccgtggc ggcgcccaga tcaccttctt
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3001 ggaggctgtg tggatggatg tggaggtctc ccaccccag aacccatccc ttcggtgctc
3061 ctcagagaaa atcgcacccc cagcatctga cttcctggcg cacattcaga agaatcccgt
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3721 tcaaggttcc aactggaaac ccttaggaca gggtccctgc tgtgttcccc aaaaggactt
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3841 cccatgaggc acgaatgatc tttctttcct ttccttttt tttttttct tttcttttt
3901 ttttttttg agacggagtc tcgctctgtc acccaggctg gagtgcaatg gcgtgatctc
3961 ggctcgctgc aacctccgcc tcccgggttc aagtaattct gctgtctcag cctcctgcgt
4021 agctgggact acaggcacac gccacctcgc ccggcccgat ctttctaaaa tacagttctg
4081 aatatgctgc tcatccccac ctgtcttcaa cagctcccca ttaccctcag gacaatgtct
4141 gaacteteca gettegegtg agaagteece tteeateeca gagggtggge tteagggege
4261 gcatcagctc agggcttcat cgtggggctc tcagttccga ttccccaggc tgaattggga
4321 gtgagatgcc tgcatgctgg gttctgcaca gctggcctcc cgcggttggg tcaacattgc
4381 tggcctggaa gggaggagcg ccctctaggg agggacatgg ccccggtgcg gctgcagctc
4441 accagececa ggggeagaag agaeceaace actteetatt ttttgagget atgaatatag
4501 tacctgaaaa aatgccaagc actagattat ttttttaaaa agcgtacttt aaatgtttgt
4561 gttaatacac attaaaacat cgcacaaaaa cgatgcatct accgctcctt gggaaataat
4681 aaaaaaaaaa aaaaaaaaaa aaaa
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- (2) INFORMATION FOR SEQ ID NO:2573:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4654 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2573:
  - 1 gaatteetge cactetteet geaacggeee aggageteag ageteeacat etgacettet
  - 61 agtcatgacc aggaccaggg cagcactcct cctgttcaca gccttagcaa cttctctagg 121 tttcaacttg gacacagagg agctgacagc cttccgtgtg gacagcgctg ggtttggaga
  - 181 cagcgtggtc cagtatgcca actcctgggt ggtggttgga gccccccaaa agataacagc 241 tgccaaccaa acgggtggcc tctaccagtg tggctacagc actggtgcct gtgagcccat
  - 301 eggeetgeag gtgeeceegg aggeegtgaa catgteeetg ggeetgteee tggegtetae

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					cagctcaccc	
					gtgttcctga	
541	aggcagcatc	tcctcccgca	actttgccac	gatgatgaac	ttcgtgagag	ctgtgataag
601	ccagttccag	agacccagca	cccagttttc	cctgatgcag	ttctccaaca	aattccaaac
661	acacttcact	ttcgaggaat	tcaggcgcac	gtcaaacccc	ctcagcctgt	tggcttctgt
721	tcaccagctg	caagggttta	catacacggc	caccgccatc	caaaatgtcg	tgcaccgatt
781	gttccatgcc	tcatatgggg	cccgtaggga	tgccaccaaa	attctcattg	tcatcactga
841	tgggaagaaa	gaaggcgaca	gcctggatta	taaggatgtc	atccccatgg	ctgatgcagc
901	aggcatcatc	cgctatgcaa	ttggggttgg	attagctttt	caaaacagaa	attcttggaa
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					cacagatacc	
					gtgcctgtgg	
					aacccatccc	
					cacattcaga	
					gacgtcccct	
					tttggctggg	
					acgttcgaca	
3301	ctcccagctt	ccaggacagg	aggcatttat	gagagctcag	acgacaacgg	tgctggagaa
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					ttcaagcgtc	
					gggacacaga	
					tcccgcgatt	
					caccaccgag	
3661	atgggcctgc	ttcctgtctt	tgggagaaaa	cgtcttgctt	gggaaggggc	ctttgtcttg
3721	tcaaggttcc	aactggaaac	ccttaggaca	gggtccctgc	tgtgttcccc	aaaaggactt
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					ctttctaaaa	
	= =		_	=		=

- (2) INFORMATION FOR SEQ ID NO:2574:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2291 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2574:

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- (2) INFORMATION FOR SEQ ID NO:2575:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 11649 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2575:

1 gaatteetge caetetteet geaacggeec aggageteag agetecacat etgacettet 61 agtcatgacc aggaccaggg cagcactect cetgttcaca gcettagcaa ettetetagg 121 tttcaacttg gacacagagg agctgacagc cttccgtgtg gacagcgctg ggtttggaga 181 cagcgtggtc cagtatgcca actcctgggt ggtggttgga gccccccaaa agataacagc 241 tgccaaccaa acgggtggcc tctaccagtg tggctacagc actggtgcct gtgagcccat 301 cggcctgcag gtgcccccgg aggccgtgaa catgtccctg ggcctgtccc tggcgtctac 361 caccageett teccagetge tggeetgegg ceccaeegtg caccaegagt gegggaggaa 421 catgtacete aceggaetet getteeteet gggeeceace cageteacee agaggeteee 481 ggtgtccagg caggagtgcc caagacagga gcaggacatt gtgttcctga tcgatggctc 541 aggcagcatc tcctcccgca actttgccac gatgatgaac ttcgtgagag ctgtgataag 601 ccagttccag agacccagca cccagttttc cctgatgcag ttctccaaca aattccaaac 661 acacttcact ttcgaggaat tcaggcgcac gtcaaacccc ctcagcctgt tggcttctgt 721 tcaccagctg caagggttta catacacggc caccgccatc caaaatgtcg tgcaccgatt 781 gttccatgcc tcatatgggg cccgtaggga tgccaccaaa attctcattg tcatcactga 841 tgggaagaaa gaaggcgaca gcctggatta taaggatgtc atccccatgg ctgatgcagc 901 aggcatcatc cgctatgcaa ttggggttgg attagctttt caaaacagaa attcttggaa 961 agaattaaat gacattgcat cgaagccctc ccaggaacac atatttaaag tggaggactt 1021 tgatgctctg aaagatattc aaaaccaact gaaggagaag atctttgcca ttgagggtac 1081 ggagaccaca agcagtagct ccttcgaatt ggagatggca caggagggct tcagcgctgt 1141 gttcacacct gatggccccg ttctgggggc tgtggggagc ttcacctggt ctggaggtgc 1201 cttcctgtac cccccaaata tgagccctac cttcatcaac atgtctcagg agaatgtgga 1261 catgagggac tcttacctgg gttactccac cgagctggcc ctctggaaag gggtgcagag 1321 cctggtcctg ggggcccccc gctaccagca caccgggaag gctgtcatct tcacccaggt 1381 gtccaggcaa tggaggatga aggccgaagt cacggggact cagatcggct cctacttcgg 1441 ggcctccctc tgctccgtgg acgtagacac cgacggcagc accgacctgg tcctcatcgg 1501 ggcccccat tactacgagc agacccgagg gggccaggtg tctgtgtgtc ccttgcccag 1561 ggggtggaga aggtggtggt gtgatgctgt tctctacggg gagcagggcc acccctgggg 1621 tcgctttggg gcggctctga cagtgctggg ggatgtgaat ggggacaagc tgacagacgt 1681 ggtcatcggg gccccaggag aggaggagaa ccggggtgct gtctacctgt ttcacggagt 1741 cttgggaccc agcatcagcc cctcccacag ccagcggatc gcgggctccc agctctcctc 1801 caggetgeag tattttggge aggeactgag egggggteaa gaceteacee aggatggaet 1861 ggtggacctg gctgtggggg cccggggcca ggtgctcctg ctcaggacca gacctgtqct 1921 ctgggtgggg gtgagcatgc agttcatacc tgccgagatc cccaggtctg cgtttqagtq 1981 tegggageag gtggtetetg ageagaeeet ggtacagtee aacatetgee tttacattga 2041 caaacgttct aagaacctgc ttgggagccg tgacctccaa agctctgtga ccttggacct 2101 ggccctcgac cctggccgcc tgagtccccg tgccaccttc caggaaacaa agaaccggag 2161 tctgagccga gtccgagtcc tcgggctgaa ggcacactgt gaaaacttca acctgctgct 2221 cccgagetge gtggaggaet etgtgaeece cattacettg egtetgaaet teaegetggt 2281 gggcaagccc ctccttgcct tcagaaacct gcggcctatg ctggccgcac tggctcagag 2341 atacttcacg gcctccctac cctttgagaa gaactgtgga gccgaccata tctgccagga 2401 caatctcggc atctccttca gcttcccagg cttgaagtcc ctgctggtgg ggagtaacct 2461 ggagctgaac gcagaagtga tggtgtggaa tgacggggaa gactcctacg gaaccaccat 2521 caccttctcc caccccgcag gactgtccta ccgctacgtg gcagagggcc agaaacaagg 2581 gcagctgcgt tccctgcacc tgacatgtga cagcgcccca gttgggagcc agggcacctg 2641 gagcaccage tgcagaatca accacctcat etteegtgge ggegeecaga teacettett 2701 ggctaccttt gacgtctccc ccaaggctgt cctgggagac cggctgcttc tgacagccaa 2761 tgtgagcagt gagaacaaca ctcccaggac cagcaagacc accttccagc tggagctccc 2821 ggtgaagtat gctgtctaca ctgtggttag cagccacgaa caattcacca aatacctcaa 2881 cttctcagag tctgaggaga aggaaagcca tgtggccatg cacagatacc aggtcaataa 2941 cctgggacag agggacctgc ctgtcagcat caacttctgg gtgcctgtgg agctgaacca 3001 ggaggetgtg tggatggatg tggaggtete ceaceceag aacecatece tteggtgete 3061 ctcagagaaa atcgcacccc cagcatctga cttcctggcg cacattcaga agaatcccgt 3121 gctggactgc tccattgctg gctgcctgcg gttccgctgt gacgtcccct ccttcagcgt 3181 ccaggaggag ctggatttca ccctgaaggg caacctcagc tttggctggg tccgccagat 3241 attgcagaag aaggtgtcgg tcgtgagtgt ggctgaaatt acgttcgaca catccgtgta 3301 ctcccagctt ccaggacagg aggcatttat gagagctcag acgacaacgg tgctggagaa 3361 gtacaaggtc cacaacccca ccccctcat cgtaggcagc tccattgggg gtctgttgct 3421 gctggcactc atcacagcgg tactgtacaa agttggcttc ttcaagcgtc agtacaagga 3481 aatgatggag gaggcaaatg gacaaattgc cccagaaaac gggacacaga cccccagccc 3541 gcccagtgag aaatgatccc tctttgcctt ggacttcttc tcccgcgatt ttccccactt

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3601 acttaccctc acctgtcagg ctgacgggga ggaaccactg caccaccgag agaggctggg
3661 atgggcctgc ttcctgtctt tgggagaaaa cgtcttgctt gggaaggggc ctttgtcttg
3721 tcaaggttcc aactggaaac ccttaggaca gggtccctgc tgtgttcccc aaaaggactt
3781 gacttgcaat ttctacctag aaatacatgg acaatacccc caggcctcag tctcccttct
3841 cccatgaggc acgaatgate tttettteet tteettttt tttttttet tttettttt
3901 tttttttttg agacggagte tegetetgte acceaggetg gagtgeaatg gegtgatete
3961 ggctcgctgc aacctccgcc tcccgggttc aagtaattct gctgtctcag cctcctgcgt
4021 agctgggact acaggcacac gccacctcgc ccggcccgat ctttctaaaa tacagttctg
4081 aatatgctgc tcatccccac ctgtcttcaa cagctcccca ttaccctcag gacaatgtct
4141 gaacteteca gettegegtg agaagteeee tteeateeea gagggtggge tteagggege
4261 gcatcagctc agggcttcat cgtggggctc tcagttccga ttccccaggc tgaattggga
4321 gtgagatgcc tgcatgctgg gttctgcaca gctggcctcc cgcggttggg tcaacattgc
4381 tggcctggaa gggaggagcg ccctctaggg agggacatgg ccccggtgcg gctgcagctc
4441 accagececa ggggeagaag agacecaace actteetatt ttttgagget atgaatatag
4501 tacctgaaaa aatgccaagc actagattat ttttttaaaa agcgtacttt aaatgtttgt
4561 gttaatacac attaaaacat cgcacaaaaa cgatgcatct accgctcctt gggaaataat
4681 aaaaaaaaaa aaaaaaaaaa aaaa
    1 gaatteetge cactetteet geaacggeec aggageteag ageteeacat etgacettet
  61 agtcatgacc aggaccaggg cagcactcct cctgttcaca gccttagcaa cttctctagg
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(2) INFORMATION FOR SEQ ID NO:2576:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 665 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2576:
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- (2) INFORMATION FOR SEQ ID NO:2577:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4465 base pairs
    - (B) TYPE: nucleic acid

661 accga

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2577:
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#### (2) INFORMATION FOR SEQ ID NO:2578:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5130 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2578:
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421	ttcctctcca	cctggccctg	cgtgggctct	gtcctcaggg	tggcccgccg	tagtccccct
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601	ctgtccagac	cacagggcct	gagtgtgggg	agggcagccg	tctaggaagg	tggtggaggg
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721	aggcccaaga	gaggcctggg	agagggatgg	cccacaaggg	ctgaccctcc	caccacccaa
781	ggggccttgg	acaggtttcc	tcctqqcaqq	gtggcccttg	tacatagaac	ccctacaacg
841	actaaggctg	gcaggcatga	ggtttcctga	aggagaaaga	acttatagaa	cccagtatag
901	ctagaaaaac	gctgggactc	cattctgaag	ccaaaggcac	taggaaggg	ttccccacac
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1141	gacagettgg	actetaceae	acadaactaa	gcaaggaagg	agetggaget	gacccagatg
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1601	crycecceta	ggcccaggtg	gagggcagag	gtggggactc	cagcccaggc	ccaagctgga
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1741	gggtggcaag	ggtgccagga	caaatggtag	gatagccatg	ggcttgggga	agctgatctc
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1861	ctccagcccc	ctaaaaagag	cctgcttaat	gcctttctca	gactggccct	aaaggacaca
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2041	ctccagctgc	tcctgcactg	agctggatgg	ccaccctgtg	acacccatct	gcagagggcc
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2461	ctggtgggcg	ctggtaggtg	ggtgaccagg	gactgttagc	tacagggagt	atactteett
2521	gcacctggga	ggatgcagcc	agetetgeee	tcagactccc	gaggcacttc	ctaaccaaaa
2581	acctgaaagc	tgcatttgcc	tatattttaa	gagtgaaatg	attcacaaac	aaddactcaa
2641	gtagtetete	tcacaaaaca	agtateceta	tgcctgaatc	actcaccctc	ccccatacac
2701	tcacaggttg	adacadade	tetetacaca	ccagacttcc	accetaceet	cotosatasa
2761	tatcaggeeg	acadddcaaca	ccaggggt	ccaggcttca	geeergeeet	cologotgaa
2821	agaacaaaa+	teeggetts	aaaaaaaaa	gtgagacgag	aygtetette	gygcggggag
2991	atcoctocc	ctoggggtata	yyayyayagg	acacggccaa	ycgaagggcc	agattgcagg
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2001		CLACETOTOC	CEGCAGGEGA	TCTCGGCGCG	caddacette	accet at acc
	ctccccagc	an agent and	cegeaggega		cayggeette	cycytytege
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3121 ccggcgcgct catcccaccc gcccaccgca gggtgaactg cagcgagtac ttcccgctgt
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3661 ggtggcgctg gctgcgctcg gcctgctcgc ccacttcctc ccggccgcgc tgcgcgccgc
3721 gctcctcgga cggctccgga cgctgctgcc gtgggcctga gaccaaggcc cccgggccga
3781 cggagccggg aaagaagagc cggagcctcc agctgccccg gggaggggcg ctcgcttccg
3841 catcctagtc tctatcatta aagttctagt gaccgagacc cgggctgcgt tctctgggtc
3901 cgcgggggtg gcgcaccgcg ggctacggag cctggagggg cccagcccga gtccgggcag
3961 cccggggcgg gcttcctagt ggcggcgtga gagtggctgc gaaggaacga gccctccccc
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4141 tececeteet caggggeett ceetegacte teageegeeg cagteeeteg teceetggee
4201 ttcacagctg acactagata gagcctgtgg ctctctcccc aggtgagggc aggggttttt
4261 cttttggtca gcactggatc cccctcgtta actgtaggtg ttcagggcag ccctccgagg
4321 tecgeagage tgegggeace atgggaacga agtgagteag tgaeaggegg teteaaggaa
4381 atgtccagaa gccttgggga tccaggggag gcccacagaa acaaagaagt gacttttagc
4441 caagtatgca ggagaaacgg aggag
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# (2) INFORMATION FOR SEQ ID NO:2579:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3002 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2579:
- 1 gccattctct cacatcccgt gcggtcagga agcccttcct gaactctgac ttcagttctt 61 gctgcggttt ctgcccattt ttttcatatc ctctgacagc tgcgaggtca tctctgctct 121 ggcttttctc caagcagaac aagtgggggc tctggaaagg ttaagggacc tcagtggcca 181 ccattatact ttgcatcttt cctgagaagt gagagttgaa agggaagcag gaaggcccat 241 ggtcagattg aaggaaggac tttttagttt ctttttttt tttttgaaat ggagtctcgc 301 tetgteatte aggetggagt geagtggtge gateteaget caetgeagee tecaetteet 361 gggttcacat gattctcctg cctcagcctc ccaagtagct gagactacag gcacatgcca 421 ctacacccag ctaacttttg tatttttagt agagacgggg tttcaccatg ttggccaggc 481 tggtctcaaa ctgctaacat caagtgatct gctccctca gcctcccaaa gtgctgggat 541 taccggtatg aaccaccaca acctgccagg aatttttagt ttttagcttt tgcaggagac 601 ttcaaggaaa ggagacattc ctctgtccag gaaacgggta aggggaccat ttctgcattg 661 ctggtttccc ctcttggcag ggtgggcatg aggcatcact gttcctgctc cctcactcct 721 gctcctcatg ctcagcctgc cagctcggcc tcaactttgt gtgtctaaag tggaactgaa 781 tagtagctgt gagaagatag gaaagaggta gtgccaatct ccttgcccag atcataaatc 841 cagactcagc agggtaacca catgggcaag cacaaggtag gtgcttgggg aaaggggaag 901 taattggcat tctgtgtgat accaaggaga ccatttggat tttggcttct accaaagaga 961 atggagaatt ggttgaccta aatggaacca gtccctttaa gtaaggggag gaaagggggt 1021 gctggaagat ggccctcttc ccaccaccta gatcatagct tgaactgaag ccaaggacag 1081 agtgctgccc ccttcggcat ttactgatgt gccctcttta aatcatgatg ttatctaacc 1141 caaacccaga cccaggacct agtcacagct ccaacctaca cttcctatta atcttaaaac 1201 aaagcgaaac aaacacaaaa agatatcagc attgtagcct ccaatctgag cccatttccc 1261 ttctctggct accatacctc cttctcctat atgataccat tcactacttt gttcaattat 1321 ccagtetaga cctgcatett gaggecacae ccageettet caetecceae acceetett 1381 ceteteteae tgeteettee tggtetette teatetggee ceacetetaa ggagteetee 1441 tgccttctgg gttgccctgg aaaacagact atccccctc ctagtgaagg gagtgggtag 1501 gggtttcagc cccaccctca ggaagatgcg tcttccctgt cctctgctct gtggtacttc 1561 ctctctggct gatttagcaa acagcaccta gacctggggc caggcctttg gcagtgggac 1621 agatccaggg ataggctaca ccaccctgcc ctgaccctgg gattggcatc agcttccaac 1681 cagttcctgc caaagcttgt aagtcctccc gacggccatg aacactacat cttctgcagc 1741 accecectea ctaggtgtag agtteatete tetgetgget ateateetge tgteagtgge

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1861 gaagcgetet gteactgeee tgatggtget gaacetggee etggeegaee tggeegtatt
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1981 tggttgccgc ctgtgtcact atgtctgcgg agtcagcatg tacgccagcg tcctgcttat
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2101 acgcaccaag gcgatggccc ggcgggtgct ggcaggcatc tgggtgttgt cctttctgct
2161 ggccacaccc gtcctcgcgt accgcacagt agtgccctgg aaaacgaaca tgagcctgtg
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2281 gggcttcctg ctgcccttcc tggctgtggt ggccagctac tcggacatag ggcgtcggct
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2461 gctggccggc caggccgccg ggttagggct cgtggggaag cggctgagcc tggcccgcaa
2521 cgtgctcatc gcactcgcct tcctgagcag cagcgtgaac cccgtgctgt acgcgtgcgc
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2641 gggttccgag gcgtccagca cgcgccgcgg gggcagcctg ggccagaccg ctaggagcgg
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3001 aa
(2) INFORMATION FOR SEO ID NO: 2580:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 848 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2580:
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181 atgaggagac accagagcag gagatggag agaccccttg cagggagctg gaggaagagg 
241 aggagtgggg ctctggaagt gaagatgcct ccaagaaaga tggggctgtt gagtctatct 
301 cagtgccaga tatggtgcac aaaaacctta cgtgtcctga ggaagagggac accagtaaaag 
361 tggtgggcat ccctgggtgc cagacctgcc gctacctcct ggtgagaagt ctccagacgt 
421 ttagtcaagc ttggtttact tgccggaggt gctacagggg caacctggtt tccatccaca 
481 acttcaatat taattatcga atccagtgtt ctgtcagcgc gctcaaccag ggtcaagtct 
541 ggattggagg caggatcaca ggctcgggtc gctgcagacc ctttcagtgg gttgacggca 
601 gccgctggaa ctttgcgtac tgggctgct accagccctg gtcccagcg ggtcactgcg 
661 tggccctgtg tacccgagga ggctactggc gtcgagacca ctgcctcaga agacttcctt 
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## (2) INFORMATION FOR SEQ ID NO:2581:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 848 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEO ID NO 2581:

1 aaaagaagga cctgggcttt gggaagatct aaagacccag gaaggtctct gggtgggata 61 aagccaagat gaaactccc ctacttctgg ctcttctatt tggggcagtt tctgctctc 121 atctaaggtc tgagacttcc acctttgaga cccctttggg tgctaagacg ctgcctgagg 181 atgaggagac accagagcag gagatggagg agaccccttg cagggagctg gaggaagagg 241 aggagtgggg ctctggaagt gaagatgcct ccaagaaaga tggggctgtt gagtctatct 301 cagtgccaga tatggtggac aaaaacctta cgtgtcctga ggaagaggac acagtaaaag 361 tggtggcat ccctgggtgc cagacctgcc gctacctcct ggtgagaagt cttcagacgt 421 ttagtcaagc ttggtttact tgccggaggt gctacagggg caacctggtt tccatccaca 481 acttcaatat taattatcga atccagtgtt ctgtcagcgc gctcaaccag ggtcaagtct 541 ggattggagg caggatcaca ggctcgggtc gctgcagccc ctttcagtgg gttgacggca 601 gccgctggaa ctttgcgtac tgggctgct accagccctg gtccccgggt ggtcactgcg 661 tggccctgtg tacccgagga ggctactgc gtcgagccca ctgcctcaga agacttcctt

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721 teatetgtte etactgaget ggteceagee ageagtteag agetgeeete teetgggeag
  781 ctgcctcccc tcctctgctt gccatccctc cctccacctc cctgcaataa aatgggtttt
  841 actgaaaa
(2) INFORMATION FOR SEQ ID NO:2582:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1696 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2582
    1 aaaagaagga cctgggcttt gggaagatct aaagacccag gaaggtctct gggtgggata
   61 aagccaagat gaaactcccc ctacttctgg ctcttctatt tggggcagtt tctgctcttc
  121 atctaaggtc tgagacttcc acctttgaga cccctttggg tgctaagacg ctgcctgagg
  181 atgaggagac accagagcag gagatggagg agaccccttg cagggagctg gaggaagagg
  241 aggagtgggg ctctggaagt gaagatgcct ccaagaaaga tggggctgtt gagtctatct
  301 cagtgccaga tatggtgcac aaaaacctta cgtgtcctga ggaagaggac acagtaaaag
  361 tggtgggcat ccctgggtgc cagacctgcc gctacctcct ggtgagaagt cttcagacgt
  421 ttagtcaagc ttggtttact tgccggaggt gctacagggg caacctggtt tccatccaca
  481 acttcaatat taattatcga atccagtgtt ctgtcagcgc gctcaaccag ggtcaagtct
  541 ggattggagg caggatcaca ggctcgggtc gctgcagacg ctttcagtgg gttgacggca
  601 gccgctggaa ctttgcgtac tgggctgctc accagccctg gtcccgcggt ggtcactgcg
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  781 ctgcctcccc tcctctgctt gccatccctc cctccacctc cctgcaataa aatgggtttt
  841 actgaaaa
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 301 cagtgccaga tatggtggac aaaaacctta cgtgtcctga ggaagaggac acagtaaaag
 361 tggtgggcat ccctgggtgc cagacctgcc gctacctcct ggtgagaagt cttcagacgt
 421 ttagtcaagc ttggtttact tgccggaggt gctacagggg caacctggtt tccatccaca
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 541 ggattggagg caggatcaca ggctcgggtc gctgcagacg ctttcagtgg gttgacggca
 601 gccgctggaa ctttgcgtac tgggctgctc accagccctg gtcccgcggt ggtcactgcg
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(2) INFORMATION FOR SEQ ID NO:2583:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 810 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEO ID NO: 2583
   1 agcagagggg ctgagaccaa accagaaacc tccaattctc atgtggaagc ccatgccctc
  61 accetecaae atgaaageet etgeageact tetgtgtetg etgeteaeag eagetgettt
 121 cagccccag gggcttgctc agccagttgg gattaatact tcaactacct gctgctacag
 181 atttatcaat aagaaaatcc ctaagcagag gctggagagc tacagaagga ccaccagtag
 241 ccactgtccc cgggaagctg taatcttcaa gaccaaactg gacaaggaga tctgtgctga
 301 ccccacacag aagtgggtcc aggactttat gaagcacctg gacaagaaaa cccaaactcc
 361 aaagetttga acatteatga etgaactaaa aacaageeat gaettgagaa acaaataatt
 421 tgtataccct gtcctttctc agagtggttc tgagattatt ttaatctaat tctaaggaat
 481 atgagettta tgtaataatg tgaateatgg tttttettag tagattttaa aagttattaa
 541 tattttaatt taatetteea tggattttgg tgggttttga acataaagee ttggatgtat
 601 atgtcatctc agtgctgtaa aaactgtggg atgctcctcc cttctctacc tcatgggggt
 661 attgtataag teettgeaag aateagtgea aagatttget ttaattgtta agatatgatg
 721 tccctatgga agcatattgt tattatataa ttacatattt gcatatgtat gactcccaaa
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781 ttttcacata aaatagattt ttgtaaaaaa

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(2) INFORMATION FOR SEQ ID NO: 2584:
    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 1085 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2584
    1 ggtttctatt gacttgggtt aatcgtgtga ccgcggtggc tggcacgaaa ttgaccaacc
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  121 tecegtgggg gtgtggetag getaagegtt ttgagetgea ttgetgegtg ettgatgett
  181 gtcccttttg atcgtggtga tttagagggt gaactcactg gaatggggat gcttgcatgt
  241 gtaatettae taagagetaa tagaaagget aggaccaaae cagaaacete caatteteat
  301 gtggaageee atgeeeteae eeteeaaeat gaaageetet geageaette tgtgtetget
  361 gctcacagca gctgctttca gcccccaggg gcttgctcag ccagttggga ttaatacttc
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  481 cagaaggacc accagtagcc actgtccccg ggaagctgta atcttcaaga ccaaactgga
  541 caaggagate tgtgctgace ccacacagaa gtgggtccag gactttatga agcacetgga
  601 caagaaaacc caaactccaa agctttgaac attcatgact gaactgaaaa caagccatga
  661 cttgagaaac aaataatttg tataccctgt cctttctcag agtggttctg agattatttt
  721 aatctaattc taaggaatat gagctttatg taataatgtg aatcatggtt tttcttagta
  781 gattttaaaa gttattaata ttttaattta atcttccatg gattttggtg ggttttgaac
  841 ataaagcctt ggatgtatat gtcatctcag tgctgtaaaa actgtgggat gctcctccct
  901 tctctacctc atgggggtat tgtataagtc cttgcaagaa tcagtgcaaa gatttgcttt
  961 aattgttaag atatgatgtc cctatggaag catattgtta ttatataatt acatatttgc
 1021 atatgtatga ctcccaaatt ttcacataaa atagattttt gtataacaaa aaaaaaaaa
 1081 aaaaa
(2) INFORMATION FOR SEQ ID NO:2585:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1085 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2585
    1 ggtttctatt gacttgggtt aatcgtgtga ccgcggtggc tggcacgaaa ttgaccaacc
   61 ctggggttag tatagcttag ttaaactttc gtttattgct aaaggttaat cactgctgtt
 121 tcccgtgggg gtgtggctag gctaagcgtt ttgagctgca ttgctgcgtg cttgatgctt
  181 gtcccttttg atcgtggtga tttagagggt gaactcactg gaatggggat gcttgcatgt
  241 gtaatcttac taagagctaa tagaaaggct aggaccaaac cagaaacctc caattctcat
 301 gtggaagccc atgccctcac cctccaacat gaaagcctct gcagcacttc tgtgtctgct
 361 gctcacagca gctgctttca gcccccaggg gcttgctcag ccagttggga ttaatacttc
  421 aactacctgc tgctacagat ttatcaataa gaaaatccct aagcagaggc tggagagcta
  481 cagaaggacc accagtagcc actgtccccg ggaagctgta atcttcaaga ccaaactgga
 541 caaggagatc tgtgctgacc ccacacagaa gtgggtccag gactttatga agcacctgga
  601 caagaaaacc caaactccaa agctttgaac attcatgact gaactgaaaa caagccatga
 661 cttgagaaac aaataatttg tataccctgt cctttctcag agtggttctg agattatttt
 721 aatctaattc taaggaatat gagctttatg taataatgtg aatcatggtt tttcttagta
 781 gattttaaaa gttattaata ttttaattta atcttccatg gattttggtg ggttttgaac
 841 ataaagcctt ggatgtatat gtcatctcag tgctgtaaaa actgtgggat gctcctcct
 901 tctctacctc atgggggtat tgtataagtc cttgcaagaa tcagtgcaaa gatttgcttt
 961 aattgttaag atatgatgtc cctatggaag catattgtta ttatataatt acatatttgc
1021 atatgtatga ctcccaaatt ttcacataaa atagattttt gtataacaaa aaaaaaaaa
1081 aaaaa
(2) INFORMATION FOR SEQ ID NO:2586:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2885 base pairs
     (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2586
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1 ggatccttaa gccatcatgc aaaatatcta gccatgtgga gggaccactg gaaagatcac

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61 acacacaca acacacaca acacacaca atacagagag agagagaga acctgagaaa
  121 ttccatctgg tccaactgct ggctgttgaa gtcctcccag cccagacccc agacactgaa
  181 tgaaggcctt gtgatatagt caagagcaaa aaaacccaga agattgttat tgttttaagt
  241 cactgttttc agatagattg ctatgcagca atagattatt gaaatagaca ctacaatttt
  301 aggtactatt attctaagaa tattgaattt tatttttctg ctaatgttct attattttac
  361 ttttctctgg gttttagaaa gccaccagga tttaagacag tgaagaatct ttgagtcctt
  421 tgtagagttg aaccaaagtt tgaatgtctc tttgtggact cgtgtcctag ggataccact
  481 ccaaagggaa aaggggaata tcccttacat atctttgact ttggtatccc tgattccttc
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  601 tacatactgt ggtcttcctc tacatagacc ctacctcacc taccactcct ggtcttagct
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 961 gtaaggteee teteteette teettgaage acattgeece etetetgggt tateetggae
1021 caatcaagaa gacctgatac ccacagtctc actttaacag ctacttttcc aagataaggt
1081 aacttagaaa aaggataagg ggtgagccca accacacagc tgctgttggg tagagcctga
1141 actagaattc cagctgtgaa ccccaaatcc agctccttct aggattccag ctctgggaac
1201 accetcagtg cagttaccae tecagetget tecageagaa tttgggatea gggtgateaa
1261 agacaggagg cttctgggga tgggtgtgcg ggctgtttcc agataccggg agacccagaa
1321 totggtotgt ggaagcccag ottocagaaa cagcagctot gcagaggtgg tacgtatcag
1381 ggaaactcat gaccaagcat tgaatgctca gagcctaaaa ggggatccat agttggggta
1441 cccttgctct aaggaattgg attattatat tagcccctcc tagcaatgcc cagagtagcc
1501 atcaattcct cttccgtctt tcaactggtg atggtgcatc cctatttcac agtccataaa
1561 agtgaaaggg agtttatgaa atgcctcaaa gggcagagac attgggtttg ggatgggcag
1621 cttttccctc cacctcttcc tttctttctg attccttctt cttaccattc cctgttttac
1681 aaacagaaag acccaggaca caccctcaat ggacttttct tcttgttgtt tcattgcagt
1741 tgggattaat acttcaacta cctgctgcta cagatttatc aataagaaaa tccctaagca
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1861 tgtggacgat gaccacccac ccctcacacc tcagtcctag gttcttccct gggcagggaa
1921 taggactagt atcagaatga gttggagtca aatactgtga tgcatacagc atctctaacc
1981 ttatcccaga catttgccag tgagaaacaa tacaagtaaa gaaagtggct tctcactctc
2041 agetecettt ccagetatea tittacatet cagttegtte etteateetg gaaccaagag
2101 agattcactt gggctaccaa aaagagctgc ttctctgagt ccccttcctt tgttttatct
2161 tcttccttca tccctgaggc atccccatca gctaggctga tgggctagac agatttccca
2221 tagacttggt cacactccca ggctgaaccc tcaaggtgtt ccatctgact gtctcctttc
2281 tgctccacag cttcaagacc aaactggaca aggagatetg tgctgacccc acacagaagt
2341 gggtccagga ctttatgaag cacctggaca agaaaaccca aactccaaag ctttgaacat
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2461 tttctcagag tggttctgag attattttaa tctaattcta aggaatatga gctttatgta
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2761 tattgttatt atataattac atatttgcat atgtatgact cccaaatttt cacataaaat
2821 agatttttgt ataacagctg ccattcatgg ttttttaaag gataagtaat aaagctggtg
2881 gggta
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- (2) INFORMATION FOR SEO ID NO: 2587:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 5865 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2587
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  - 61 accetecaac atgaaageet etgeageact tetgtgtetg etgeteacag eagetgettt
  - 121 cagececcag gggettgete agecagttgg gattaatact teaactacet getgetacag
  - 181 atttatcaat aagaaaatcc ctaagcagag getggagage tacagaagga ccaccagtag 241 ccactgtccc egggaagetg taatettcaa gaccaaactg gacaaggaga tetgtgetga
  - 301 ccccacacag aagtgggtcc aggactttat gaagcacctg gacaagaaaa cccaaactcc

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361 aaagetttga acattcatga etgaactaaa aacaageeat gaettgagaa acaaataatt
 421 tgtataccct gtcctttctc agagtggttc tgagattatt ttaatctaat tctaaggaat
 481 atgagettta tgtaataatg tgaateatgg tttttettag tagattttaa aagttattaa
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 601 atgtcatctc agtgctgtaa aaactgtggg atgctcctcc cttctctacc tcatgggggt
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 781 ttttcacata aaatagattt ttgtaaaaaa
   1 ggtttctatt gacttgggtt aatcgtgtga ccgcggtggc tggcacgaaa ttgaccaacc
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 181 gtcccttttg atcgtggtga tttagagggt gaactcactg gaatggggat gcttgcatgt
 241 gtaatcttac taagagctaa tagaaaggct aggaccaaac cagaaacctc caattctcat
 301 gtggaagccc atgccctcac cctccaacat gaaagcctct gcagcacttc tgtgtctgct
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 421 aactacctgc tgctacagat ttatcaataa gaaaatccct aagcagaggc tggagagcta
 481 cagaaggacc accagtagcc actgtccccg ggaagctgta atcttcaaga ccaaactgga
 541 caaggagate tgtgctgace ceacacagaa gtgggtecag gaetttatga ageaeetgga
 601 caagaaaacc caaactccaa agctttgaac attcatgact gaactgaaaa caagccatga
 661 cttgagaaac aaataatttg tataccctgt cctttctcag agtggttctg agattatttt
 721 aatctaattc taaggaatat gagctttatg taataatgtg aatcatggtt tttcttagta
 781 gattttaaaa gttattaata ttttaattta atcttccatg gattttggtg ggttttgaac
 841 ataaageett ggatgtatat gteateteag tgetgtaaaa aetgtgggat geteeteeet
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1081 aaaaa
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  61 ctggggttag tatagcttag ttaaactttc gtttattgct aaaggttaat cactgctgtt
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 781 gattttaaaa gttattaata ttttaattta atcttccatg gattttggtg ggttttgaac
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 961 aattgttaag atatgatgtc cctatggaag catattgtta ttatataatt acatatttgc
1081 aaaaa
  1 ggatccttaa gccatcatgc aaaatatcta gccatgtgga gggaccactg gaaagatcac
 61 acacacaca acacacaca acacacacac atacagagag agagagagac acctgagaaa
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421 tgtagagttg aaccaaagtt tgaatgtctc tttgtggact cgtgtcctag ggataccact
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541 ctttttctat agaatgtgtc tcatttcaga gaaactggtc tcttgataat agccatagat
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841 aacctccaat teteatgtgg aageccatge eetcaceete caacatgaaa geetetgeag
901 cacttetgtg tetgetgete acageagetg ettteagece ceaggggett geteageeag
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961 gtaaggtccc tctctccttc tccttgaagc acattgcccc ctctctgggt tatcctggac
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1081 aacttagaaa aaggataagg ggtgagccca accacacagc tgctgttggg tagagcctga
1141 actagaattc cagctgtgaa ccccaaatcc agctccttct aggattccag ctctgggaac
1201 accetcagtg cagttaccac tecagetget tecageagaa tttgggatea gggtgateaa
1261 agacaggagg cttctgggga tgggtgtgcg ggctgtttcc agataccggg agacccagaa
1321 tctggtctgt ggaagcccag cttccagaaa cagcagctct gcagaggtgg tacgtatcag
1381 ggaaactcat gaccaagcat tgaatgctca gagcctaaaa ggggatccat agttggggta
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1501 atcaattcct cttccgtctt tcaactggtg atggtgcatc cctatttcac agtccataaa
1561 agtgaaaggg agtttatgaa atgcctcaaa gggcagagac attgggtttg ggatgggcag
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1681 aaacagaaag acccaggaca caccctcaat ggacttttct tcttgttgtt tcattgcagt
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1981 ttatcccaga catttgccag tgagaaacaa tacaagtaaa gaaagtggct tctcactctc
2041 agetecettt ceagetatea ttttacatet eagttegtte etteateetg gaaceaagag
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2161 tcttccttca tccctgaggc atccccatca gctaggctga tgggctagac agatttccca
2221 tagacttggt cacactccca ggctgaaccc tcaaggtgtt ccatctgact gtctcctttc
2281 tgctccacag cttcaagacc aaactggaca aggagatctg tgctgacccc acacagaagt
2341 gggtccagga ctttatgaag cacctggaca agaaaaccca aactccaaag ctttgaacat
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2581 cttccatgga ttttggtggg ttttgaacat aaagccttgg atgtatatgt catctcagtg
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2701 tgcaagaatc agtgcaaaga tttgctttaa ttgttaagat atgatgtccc tatggaagca
2761 tattgttatt atataattac atatttgcat atgtatgact cccaaatttt cacataaaat
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2881 gggta
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- (2) INFORMATION FOR SEQ ID NO:2588:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 741 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2588
  - 1 aaccgagagg ctgagactaa cccagaaaga tccaattctc aaactgaagc tcgcactctc 61 gcctccagca tgaaagtctc tgccgcctt ctgtgcctgc tgctcatagc agccaccttc 121 attcccaaga ggctcgctca gccagatgca atcaatgccc cagtcacctg ctgttataac 181 ttcaccaata ggaagatctc agtgcagagg ctcgcgagct atagaagaat caccagcagc 241 aagtgtcca aagaagctgt gatctcaag accattgtgg ccaaggagat ctgtgctgac 301 cccaagcaga agtgggttca ggattccatg gaccacctgg acaagcaaac ccaaactccg 361 aagacttgaa cactcactcc acaacccaag aatctgcagc taacttattt tcccctagct 421 ttccccagac accctgttt attttatta aatgaatttt gtttgttgat gtgaaacatt 481 atgccttaag taatgttaat tcttattaa gttattgatg ttttaagttt atcttcatg 541 gtactagtgt tttttagata cagagacttg gggaaattgc ttttcctctt gaaccacagt 601 tctaccctg ggatgtttg agggtcttg caagaatcat taatacaaag aattttttt 661 aacattccaa tgcattgcta. aaatattatt gtggaaatga atattttgta actattacac
- 721 caaataaata tatttttgta c
- (2) INFORMATION FOR SEQ ID NO:2589:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1522 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2589
  - 1 agcccatgtc ctctctttc aggtgatgac tttcccctga ggaagccctg tagcgtgcct

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61 ggaggaaggg getetecaae eecageeeca eetageeace atgaacaett cageeecace
  121 tgctgtcagc cccaacatca ccgtcctggc accaggaaag ggtccctggc aagtggcctt
  181 cattgggatc accacgggcc tcctgtcgct agccacagtg acaggcaacc tgctggtact
  241 catctettte aaggteaaca eggageteaa gacagteaat aactaettee tgetgageet
  301 ggcctgtgct gacctcatca tcggtacctt ctccatgaac ctctatacca cgtacctgct
  361 catgggccac tgggctctgg gcacgctggc ttgtgacctc tggctggccc tggactatgt
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  481 gactcggccc ctgagctacc gtgccaagcg cacaccccgc cgggcagctc tgatgatcgg
  541 cctggcctgg ctggtttcct ttgtgctctg ggccccagcc atcctcttct ggcagtacct
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 1021 ggaccccgag gcacaggccc ccaccaagca gcccccacgg agctccccaa atacagtcaa
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1501 teectecace ceagteceeg gg
(2) INFORMATION FOR SEQ ID NO:2590:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1569 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2590
   1 attttaaacc aatgtttata ttatgtttgt taattttatt ctatttcctt gcaggtttaa
  61 atgtttattt gctacttggc tactgattag agaacgcaaa atgaataact caacaaactc
 121 ctctaacaat agcctggctc ttacaagtcc ttataagaca tttgaagtgg tgtttattgt
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(2) INFORMATION FOR SEQ ID NO:2591:

1561 aacgagete

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(i) SEQUENCE CHARACTERISTICS:
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      (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
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(2) INFORMATION FOR SEQ ID NO:2593:
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    (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2593
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(2) INFORMATION FOR SEQ ID NO:2594:
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     (A) LENGTH: 1230 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
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    (B) TYPE: nucleic acid
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    (D) TOPOLOGY: linear
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 241 ccacgggggc agttgagact gggtggctgc aactgctgga ccaagctggc aacctctcct
 301 cetecette egegetggga etgeetgtgg etteceege geetteeag eeetgggea
 361 acctcaccaa ccagttcgtg cagccgtcct ggcgcatcgc gctctggtcc ctggcgtatg
 421 gtgtggtggt ggcagtggca gttttgggaa atctcatcgt catctggatc atcctggccc
 481 acaagcgcat gaggactgtc accaactact tccttgtgaa cctggctttc tccgacgcct
 541 ccatggccgc cttcaacacg ttggtcaatt tcatctacgc gcttcatagc gagtggtact
 601 ttggcgccaa ctactgccgc ttccagaact tctttcctat cacagctgtg ttcgccagca
 661 tctactccat gacggccatt gcggtggaca ggtatatggc tattattgat cccttgaaac
 721 ccagactgtc tgctacagca accaagattg tcattggaag tatttggatt ctagcatttc
 781 tacttgcctt ccctcagtgt ctttattcca aaaccaaagt catgccaggc cgtactctct
 841 gctttgtgca atggccagaa ggtcccaaac aacatttcac ttaccatatt atcgtcatta
901 tactggtgta ctgtttccca ttgctcatca tgggtattac atacaccatt gttggaatta
```

```
961 ctctctggg aggagaaatc ccaggagata cctgtgacaa gtatcatgag cagctaaagg 1021 ccaaaagaa ggttgtcaaa atgatgatta ttgttgtcat gacatttgct atctgctggc 1081 tgccctatca tatttacttc attctcactg caatctatca acaactaaat agatggaaat 1141 acatccagca ggtctacctg gctagctttt ggctggcaat gagctcaacc atgtacaatc 1201 ccatcatcta ctgctgtctg aataaaagat ttcgagctgg cttcaagaga gcatttcgct 1261 ggtgtccttt catcaaagtt tccagctatg atgagctaga gctcaagac accaggttc 1321 atccaaaccg gcaaagcagt atgtacaccg tgaccagaat ggagtccatg acagtcgtgt 1381 ttgacccaa cgatgcagac accaccaggt ccagtcggaa gaaaagagca acgccaagag 1441 acccaagtt caatggctgc tctcgcagga attccaaatc tgcctccgc acttcaagtt 1501 tcataagctc accctatacc tctgtggatg aatattctta attccattc ctgaggtaaa 1561 agattagtg gagaccatca tggtgccagt ctaggacccc attctcctat ttatcagtcc 1621 tgtcctatat accctctaga aacagaaagc aatttttagg cagctatggt caaattgaga 1681 aaggtagtgt ataaatgtga caaagacact aataacatgt tagcctccac ccaaaataaa 1741 atgggcttta aatt
```

#### (2) INFORMATION FOR SEQ ID NO:2596:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1197 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2596

```
1 atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc
 61 acgggcatca cagcettete catgeccage tggcagetgg caetgtggge accageetae
 121 ctggccctgg tgctggtggc cgtgacgggt aatgccatcg tcatctggat catcctggcc
 181 catcggagga tgcgcacagt caccaactac ttcatcgtca atctggcgct ggctgacctc
 241 tgcatggctg cettcaatge egeettcaae tttgtetatg ceagecaeaa catetggtae
301 tttggccgtg ccttctgcta cttccagaac ctcttcccca tcacagccat gtttgtcagc
361 atctactcca tgaccgccat tgctgccgac aggtacatgg ccatcgtcca cccttccag
 421 cctcggcttt cagctcccag caccaaggcg gttattgctg gcatctggct ggtggctctc
 481 gccctggcct cccctcagtg cttctactcc accgtcacca tggaccaggg tgccaccaag
 541 tgcgtggtgg cctggcccga agacagcggg ggcaagacgc tcctcctgta ccacctcgtg
601 gtgatcgccc tcatctactt cctgccgctc gcggtgatgt ttgtagccta cagcgtcatc
 661 ggcctcacgc tctggaggcg cgcagtgccc ggacatcagg cgcacggtgc caacctccgc
721 catctgcagg ccaagaagaa gtttgtgaag accatggtgc tggtggtgct gacgtttgcc
781 atctgctggc tgccctacca cctctacttc atcctgggca gcttccagga ggacatctac
841 tgccacaagt tcatccagca agtctacctg gcactcttct ggttggccat gagctctacc
901 atgtacaatc ccatcatcta ctgctgtctc aaccacaggt ttcgctctgg gttccggctt
961 gccttccgct gctgcccatg ggtcacaccc accaaggaag ataagctcga gctgactccc
1021 acgacctccc tctccacgag agtcaacagg tgtcacacta aggagacttt gttcatggct
1081 ggggacacag cccctccga ggctaccagt ggggaggcgg ggcgtcccca ggatggatca
1141 gggctatggt ttgggtatgg tttgcttgcc cccaccaaaa ctcatgttga aatttga
```

#### (2) INFORMATION FOR SEQ ID NO:2597:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4182 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2597

1 atggataacg tcctccggt ggactcagac ctctcccaa acatctccac taacacctcg 61 gaacccaatc agttcgtga accagctgg caaattgtcc tttgggcagc tgcttacacg 121 gtcattgtgg tgacctctgt ggtgggcaac gtggtagtga tgtggatcat cttagcccac 181 aaaagaatga ggacagtgac gaactattt ctggtgaacc tggccttcgc ggaggcctcc 241 atggctgcat tcaatacagt ggtgaacttc acctatgctg tccacaacga atggtactac 301 ggcctgttct actgcaagtt ccacaacttc ttccccatcg ccgcttgctt cgccagtatc 361 tactccatga cggctgtggc ctttgatagg tacatggcca tcatacatcc cctccagccc 421 cggctgtcag ccacagcac caaagtggtc atctgtgca tctgggtcct ggctctcctg 481 ctggccttcc cccagggcta ctactcaacc acaggagcca tccggacaga agtcgtggc 541 atgatcgaat ggccagagca tccgaacaag atttatgaga aagtgtacca catctgtgtg 601 actgtgctga tctactcct ccccctgctg gtgattggct atcacacca cgagcaagtc 721 tctgccaagc gcaaggtggt caaaatgatg attgtcgtgg tgtgcacctt cgccatctg

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781 tggctgccct tccacatctt cttcctcctg ccctacatca acccagatct ctacctgaag
  841 aagtttatcc agcaggtcta cctggccatc atgtggctgg ccatgagctc caccatgtac
  901 aaccccatca tetactgetg cetcaatgae aggtteegte tgggetteaa geatgeette
  961 cggtgctgcc ccttcatcag cgccggcgac tatgaggggc tggaaatgaa atccacccgg
 1021 tatctccaga cccagggcag tgtgtacaaa gtcagccgcc tggagaccac catctccaca
 1081 gtggtggggg cccacgagga ggagccagag gacggcccca aggccacacc ctcgtccctg
 1141 gacctgacct ccaactgctc ttcacgaagt gactccaaga ccatgacaga gagcttcagc
 1201 ttctcctcca atgtgctctc ctagggatcc
    1 ctattgcagt atctttcagc ttccagtctt atctgaagac cccggcacca aagtgaccag
   61 gaggcagaga agaacttcag aggagtctcg tcttgggctg cccgtgggtg agtgggaggg
  121 teegggaetg cagaeeggtg gegatggeea eteteceage ageagaaace tggatagaeg
  181 ggggtggagg cgtgggtgca gacgccgtga acctgaccgc ctcgctagct gccggggcgg
  241 ccacgggggc agttgagact gggtggctgc aactgctgga ccaagctggc aacctctcct
  301 ceteceette egegetggga etgeetgtgg etteceeege geeeteeeag eeetgggeea
  361 acctcaccaa ccagttcgtg cagccgtcct ggcgcatcgc gctctggtcc ctggcgtatg
  421 gtgtggtggt ggcagtggca gttttgggaa atctcatcgt catctggatc atcctggccc
  481 acaagegeat gaggaetgte accaactact teettgtgaa eetggettte teegaegeet
  541 ccatggccgc cttcaacacg ttggtcaatt tcatctacgc gcttcatagc gagtggtact
  601 ttggcgccaa ctactgccgc ttccagaact tctttcctat cacagctgtg ttcgccagca
  661 totactocat gacggccatt gcggtggaca ggtatatggc tattattgat cccttgaaac
 721 ccagactgtc tgctacagca accaagattg tcattggaag tatttggatt ctagcatttc
 781 tacttgcctt ccctcagtgt ctttattcca aaaccaaagt catgccaggc cgtactctct
 841 gctttgtgca atggccagaa ggtcccaaac aacatttcac ttaccatatt atcgtcatta
 901 tactggtgta ctgtttccca ttgctcatca tgggtattac atacaccatt gttggaatta
 961 ctctctgggg aggagaaatc ccaggagata cctgtgacaa gtatcatgag cagctaaagg
1021 ccaaaagaaa ggttgtcaaa atgatgatta ttgttgtcat gacatttgct atctgctggc
1081 tgccctatca tatttacttc attctcactg caatctatca acaactaaat agatggaaat
1141 acatccagca ggtctacctg gctagctttt ggctggcaat gagctcaacc atgtacaatc
1201 ccatcatcta ctgctgtctg aataaaagat ttcgagctgg cttcaagaga gcatttcgct
1261 ggtgtccttt catcaaagtt tccagctatg atgagctaga gctcaagacc accaggtttc
1321 atccaaaccg gcaaagcagt atgtacaccg tgaccagaat ggagtccatg acagtcgtgt
1381 ttgaccccaa cgatgcagac accaccaggt ccagtcggaa gaaaagagca acgccaagag
1441 acccaagttt caatggctgc tctcgcagga attccaaatc tgcctccgcc acttcaagtt
1501 tcataagctc accetatace tetgtggatg aatattetta attecattte etgaggtaaa
1561 agattagtgt gagaccatca tggtgccagt ctaggacccc attctcctat ttatcagtcc
1621 tgtcctatat accctctaga aacagaaagc aatttttagg cagctatggt caaattgaga
1681 aaggtagtgt ataaatgtga caaagacact aataacatgt tagcctccac ccaaaataaa
1741 atgggcttta aattt
   1 atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc
  61 acgggcatca cagcettete catgeceage tggcagetgg caetgtggge accageetae
 121 ctggccctgg tgctggtggc cgtgacgggt aatgccatcg tcatctggat catcctggcc
 181 catcggagga tgcgcacagt caccaactac ttcatcgtca atctggcgct ggctgacctc
 241 tgcatggctg ccttcaatgc cgccttcaac tttgtctatg ccagccacaa catctggtac
 301 tttggccgtg ccttctgcta cttccagaac ctcttcccca tcacagccat gtttgtcagc
 361 atctactcca tgaccgccat tgctgccgac aggtacatgg ccatcgtcca ccccttccag
 421 cctcggcttt cagctcccag caccaaggcg gttattgctg gcatctggct ggtggctctc
 481 gccctggcct cccctcagtg cttctactcc accgtcacca tggaccaggg tgccaccaag
 541 tgcgtggtgg cctggcccga agacagcggg ggcaagacgc tcctcctgta ccacctcgtg
 601 gtgatcgccc tcatctactt cctgccgctc gcggtgatgt ttgtagccta cagcgtcatc
 661 ggcctcacgc tctggaggcg cgcagtgccc ggacatcagg cgcacggtgc caacctccgc
721 catctgcagg ccaagaagaa gtttgtgaag accatggtgc tggtggtgct gacgtttgcc
781 atctgctggc tgccctacca cctctacttc atcctgggca gcttccagga ggacatctac
841 tgccacaagt tcatccagca agtctacctg gcactcttct ggttggccat gagctctacc
901 atgtacaatc ccatcatcta ctgctgtctc aaccacaggt ttcgctctgg gttccggctt
 961 gccttccgct gctgcccatg ggtcacaccc accaaggaag ataagctcga gctgactccc
1021 acgacetece tetecacgag agteaacagg tgtcacaeta aggagaettt gttcatgget
1081 ggggacacag ccccctccga ggctaccagt ggggaggcgg ggcgtcccca ggatggatca
1141 gggctatggt ttgggtatgg tttgcttgcc cccaccaaaa ctcatgttga aatttga
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⁽²⁾ INFORMATION FOR SEQ ID NO:2598:

⁽i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1560 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: single
  (D) TOPOLOGY: linear
  (xi)SEQUENCE DESCRIPTION: SEQ ID NO: 2598

  1 ctccataagg cacaaacttt cagagacagc agagcacaca agcttctagg acaagagcca
  61 ggaagaaacc accggaagga accatctcac tgtgtgtaaa catgacttcc aagctggccg
  121 tggctctctt ggcagccttc ctgatttctg cagctctgtg tgaaggtgca gttttgccaa
  181 ggagtgctaa agaacttaga tgtcagtgca taaagacata ctccaaacct ttccaccca
  241 aatttatcaa agaactgaga gtgattgaga gtggaccaca ctgcgccaac acagaaatta
  301 ttgtaaagct ttctgatgga agagagctct gtctggaccc caaggaaaac tgggtgcaga
- 181 ggagtgctaa agaacttaga tgtcagtgca taaagacata ctccaaacct ttccacccca 241 aatttatcaa agaactgaga gtgattgaga gtggaccaca ctgcgccaac acagaaatta 301 ttgtaaagct ttctgatgga agagagctct gtctggaccc caaggaaaac tgggtgcaga 361 gggttgtgga gaagtttttg aagagggctg agaattcata aaaaaattca ttctctgtgg 421 tatccaagaa tcagtgaaga tgccagtgaa acttcaagca aatctacttc aacacttcat 481 gtattgtgtg ggtctgttgt agggttgcca gatgcaatac aagattcctg gttaaatttg 541 aatttcagta aacaatgaat agtttttcat tgtaccatga aatatccaga acatacttat 601 atgtaaagta ttatttattt gaatctacaa aaaacaacaa ataattttta aatataagga 661 ttttcctaga tattgcacgg gagaatatac aaatagcaaa attgggccaa gggccaagag 721 aatatccgaa ctttaatttc aggaattgaa tgggtttgct agaatgtgat atttgaagca 781 tcacataaaa atgatgggac aataaatttt gccataaagt caaatttagc tggaaatcct 841 ggatttttt ctgttaaatc tggcaaccct agtctgctag ccaggatcca caagtccttg 901 ttccactgtg ccttggtttc tcctttattt ctaagtggaa aaagtattag ccaccatctt 961 acctcacagt gatgttgtga ggacatgtgg aagcacttta agttttttca tcataacata 1021 aattatttc aagtgtaact tattaaccta tttattattt atgtatttat ttaagcatca 1081 aatatttgtg caagaatttg gaaaaataga agatgaatca ttgattgaat agttataaag
- 1141 atgttatagt aaatttattt tattttagat attaaatgat gttttattag ataaatttca 1201 atcagggttt ttagattaaa caaacaaaca attgggtacc cagttaaatt ttcatttcag 1261 atatacaaca aataatttt tagtataagt acattattgt ttatctgaaa ttttaattga 1321 actaacaatc ctagtttgat actcccagtc ttgtcattgc cagctgtgtt ggtagtgctg 1381 tgttgaatta cggaataatg agttagaact attaaaacag ccaaaactcc acagtcaata 1441 ttagtaattt cttgctggtt gaaacttgtt tattatgtac aaatagattc ttataatatt

1501 atttaaatga ctgcattttt aaatacaagg ctttatattt ttaactttaa aaaaaaccgg

- (2) INFORMATION FOR SEQ ID NO:2599:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1561 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2599
- 1 gaattetete tecageagee etgecagatg eccgeecage ecctgeetea ggeggggagg 61 gcttcaggga agctcaccaa ggcagaaggg cgggagagat tgtcagagcc ccagctggtg 121 tccagggact gaccgtgagc ctgggtgaaa gtgagttccc cgttggaggc aacagacgag 181 gagaggatgg aaggcctggc ccccaagaat gagccctgag gttcagggag cggctggagt 241 gageeggeee cagateteeg tecagetgeg ggteecagag geetgggtta caetegeage 301 tcctggggga ggcccttgac gtgcctcagt tcccaaacag gaaccctggg aaggaccaga 361 gaagtgccta ttgcgcagtg agtgcccgac acagctgcat gtggccggta tcacagggcc 421 ctgggtaaac tgaggcaggc gacacagctg catgtggccg gtatcacagg gccctgggta 481 aactgaggca ggcgacacag ctgcatgtgg ccggtatcac agggccctgg gtaaactgag 541 gcaggcgaca cagctgcatg tggccgtatc acagggccct gggtaaactg aggcaggtga 601 cacagetgca tgtggccggt atcacggggc cctggataaa cagaggcagg cgacacagct 661 gcatgtggcc ggtatcacgg ggccctgggt aaactgaggc aggcgaggcc acccccatca 721 agtccctcag gtctaggttt ggcaggtttg gcaaaaacac agcaacgctc ggttaaatct 781 gaatttcggg taagtatatc ctgggcctca tttggaagag acttagatta aaaaaaaaac 841 gtcgagacca gcccggccaa cacggtgaaa ccccgtctct actaaaaata caaaaaatta 901 gccaggcgca gtggctcacg cctgtgatcc cagcactctg ggaggctgag gcaggcgqat 961 cacccgaggt cagatgttca agaccagcct ggccgacagg gcgaaacact gtctctacta 1021 caaatacaaa aattagccgg gagtggtggc aggtgcctgt aatctcagct attcaggagg 1081 ctgaggcagg agaatcactt gaacctggga ggcggaggtt gccgtgagcc gggatcacgc 1141 caccgcactc cagcctgggc gatagagcaa gactctgtct ccaaaaaaat aaattaaaaa 1201 acccacattg attatctgac atttgaatgc gattgtgcat cctgaatttt gtctggaggc 1261 cccacccgag ccaatccage gtcttgtccc ccttctcccc cttttcatca acgccctgtg 1321 ccaggggaga ggaagtggag ggcgctggcc ggccgtgggg caatgcaacg gcctcccagc 1381 acagggctat aagaggagcc gggcgggcac ggaggggcag agaccccgga gccccagccc

1441 caccatgace cteggeegee gactegegtg tettteete geetgtgtee tgeeggeett 1501 getgetgggg ggtgagtttt tgagteeaae eteeegetge teeetetgte eegggttetg 1561 t

- (2) INFORMATION FOR SEQ ID NO: 2600:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 5160 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2600

1 agetteatee tggagteaac agattgggtt tgaateetgg etetgteeet ttetagetgt 61 gtgtttggtt gttactccac ctctctgagc cttaatttct tcatcagtaa aagtaatatt 121 cacctcctag ggttgttggg agggagaata agaacttcta aagtacccga acctaqcaac 181 taggacacta tatttgcagg caagatgaag aggggtgggg aagtaatagg aaacagccca 241 aatcgagagc cataatagtc tctctttact tagtgccagt gcaggcctgt gattctgttc 301 ttaaaaacgt ctggggcaag ctgcaggaaa gacccgagat agcttatgtt ctaccataag 361 ccttaaggga ggaggactcc aggcagggag acttaccatg gcacctctaa gagaaagcct 421 actgaccaga gagaggtcag tcatgtactc ccgtagcttc ttagaatttc tgatctgact 481 cgctgcctct agagttgttc aggtggaaat tggaaggcta tagaggaatt cggcagcata 541 cagtggctca cgtctgtaat ccaaaatcca agcattttgg aaggccaaag taggaggatc 601 acttaagccc aggagtttaa gaccagccta ggcaaccgag tgagatccat ctccactaaa 661 aaattttaaa atttgccagg tatggtggtg tgcacctgta gccccagcta ctcaggagag 721 tcagagaatc ggcgcacccc ggagttcgag gttgcagtga gccatgatca cgccactgta 781 ctccagcctg ggtgacagag aagaccacct gtctcaaaaa acataaataa ataaataaat 841 aaataggccg tgcgcagcgg ctcacgactg taattccaac attttagaag gcggaggcag 901 cggatcacct gaggtcagga gttcgggacc agcctgacca acgtggtgaa accccaactc 961 tactaaaaat acataaatta ggcggggcgt ggtggtggcc gcctgtaatc ccagctactc 1021 ggtaggctgc agcaggagaa tggtttgaac ccgggaggca gaggttgcag tgagccaaaa 1081 teceetcaet geattecage etgagaetaa aaaaaagagg egattteeca eateggtgga 1141 aatttgagct gtttaaactc tggatgcctt tttcagttct aatattccag atctccttgg 1201 tggataaaca cttcatttcc cttctcctga gcagagctcc tgagccctgg cccgctggaa 1261 cctgtcactt ctaaaaaagt tcgaggtccg gactgtctct cccggagcct tgaggctgat 1321 gagacggagc gagagagggg ccgggggcaa tggagtctac tcqcqqqccc aqqqaqqcqc 1381 cagagggccc cgggaccgac cgcaagaata acttccttcc tcttccgcta acttcccqgc 1441 agggetaege teagggtggg ggeeeegagg getggggget eggetteeee etggggatee 1501 cccgcttcag agaagccaag cgttagcgca gccaaagccg gaggcagcga agctccggcc 1561 cggggtggcg ctgggtcagg gtaccttctc ggcggtcccc tggccggccg aactcgcgcc 1621 tggtgtcctg tcaccccgct ccccgccctg agtgagcctg tcccctctca ggggcgccc 1681 cgagtcgctc cgggttggct gccaggtcca gagttaaact ttcagccaat gaaaaagggc 1741 gcgagggctg acgcacggaa acgtcatggg aattcccccc tccggggggc cgagaagggg 1801 ctttcccggc cctgagccct gctggcaggc gaggtgtcgc gaccggtccc aggtgggtcg 1861 ggcgcggaga gaagccgcaa ccagagccgc cgccacggtg agtggctgga ttcagacccc 1921 tgggtggccg ggacaagaga aaagagggag gagggccttt agcggacagc gcctggggct 1981 ggagagcagc agctgcacac agccggaaag ggcgcgcagg cgacgacact cggatccacg 2041 tcgacaccgt tgtacaaaga tacgcggacc cgtacgtaca cctgtacctg tgctggcgca 2101 cacacggcag cgtccgtgca gtcgcactcg cacacacatg cacacggaga cgtgcccacc 2161 ggtgcactgg tgcctgcacc cacacccttc acgcacaaac tcaagatacg ctcacccgtg 2221 tetgtacate aagacaggeg etgacacaca cecacactga gaageteggg atteacetat 2281 ctacacacat gctcgcttgc acactcatgt tgacgccatg gacacacaac atgcaaccaa 2341 gcactacagc cgaaacacac ttgtggagct gtgatggaga cacactcttg tattaggtgg 2401 ggggggggg ggagcgtgca gagatctccc tgtcgcctgc gcgcccagaa ccggtgcggt 2461 gtgggaccag ctgctgttgt gaggtttggg agagagaa aaagagccca ctccgaggag 2521 gagacacttt tecegeagee ecagaatege gttetegggg cagaaceeeg gggeeteeca 2581 caggaaagag ccccgcctac aggctgttcg aaggggaggc cgtccgacag caggaatgtc 2641 cccccaaaag cccccggggt ttatcagccg tggcctccct cctggcagaa aatcccaagg 2701 ttgctccaga ccgggggagg ggagcgggag gcggacttgg ccccagactg ccagcctcct 2761 cccggccgtg aaagaccctc ctgttccctg ccctggaggg aggagggggc ttaacccacc 2821 ggggcttccc ggattctcct agacctctgc ccgctgaaaa gcagcgggac gccgtagact 2881 gtcgagggcc atcccgcccc tcccgtcgcg agggcggggc cagtggcgtc atttccaggc 2941 ccgcccctc cggccccgcc tccccttggt attttcggga ctttcctaag ctgctctaac 3001 tttcctgccc cttccccgcc aagcccaact ccggatctcg ctctccaccg gatctcaccc

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3061 gccacacccg gacaggcggc tggaggaggt cggaccctcc cccaaatctg ggcccccatt
3121 ctcccgccca cccccattta gatctgaccc cctcccccac gccactcctc ccaactttag
3181 gcgggcgtct aaaattctgg gaagcagaac ctggccggag ccactagaca gagccgggcc
3241 tagcccagag acatggagag ttgctacaac ccagtgagtc atgccgcctg cccctgaccc
3301 ggccggctag cccctcgtgt ctgtccacct gtctgcccga gccccctact gctgccttac
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3421 ctccaaaagg agctttctct tgggtctgag gaggaggggg gagtgaccac tgaagacttg
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3541 tetecaaace agggtetgga tggtattatt gaatatgatg attteaaatt gaacteetee
3601 attgtggaac ccaaggagcc agccccagaa acaggtcagc aagttcacta acctccccta
3661 gtctaaagcg ggggagggag agcatgtgcc ctctctctgg gggaggggtc tgggagatcg
3721 tgtgctcagc aaggtctctc tgtccccagc tgatggcccc tacctggtga tcgtggaaca
3781 gcctaagcag gttgagtgag caaaagggag ggatgtggaa tggcttcagc tttggggaca
3841 aatggggtag tgtagctggc tggcatggag gagcattgcc gaagaggccc acaggggatt
3901 ggatggtcac tgctgctgat cagagtgctg tagttttggt tcagggctac taccagcgac
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4021 tcagagagge ttccgatttc gatatggctg tgaaggcccc tcccatggag gactgcccgg
4081 tgcctccagt gagaagggcc gaaagaccta tcccactgtc aaggtgakcc aggatggtgc
4141 tggmgggtgg gctaagtgga cagcatgccc aaggccctga cgtgacagtc ccttgcctct
4201 cctagatetg taactacgag ggaccageca agategaggt ggacetggta acacacagtg
4261 acccacctcg tgctcatgcc cacagtctgg tgggcaagca atgctcggag ctggggatct
4321 gcgccgtttc tgtggggccc aaggacatga ctgcccagta ggtgcccttc ttacgccttq
4381 gcccccactg gtatgccskt cwtgccagtc ccaggcccca gccacctcca tatgatgtta
4441 gcatctgacc aaggggaaan gatgtaggtt ggccccaaac ccaagggcct aagtagaaac
4501 tecaatgget teettgagga agtaaggetg agetgageet ggeaatggga aaggtgeetg
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4681 tgatacaaaa acttcagagg cagcggctcc gctctaggcc ccagggcctt acgggtatgg
4741 gtgcaggggg tgggtcgggt atgggtgcag ggggtgggtg ggtcatggga ggtgctcatg
4801 gaaggagcag ggagggagaa gccaggggtc acacatgtac ctactgccca gaggccgagc
4861 agcgggagct ggagcaagag gccaaagaac tgaagaaggt gatggatctg agtatagtgc
4921 ggctgcgctt ctctgccttc cttagagcca gtgatggctc cttctccctg cccctgaagc
4981 cagtcacctc ccagcccatc catgatagca gtgagtatcc tgattgcctg gggtgccagg
5041 cctggtsgsa gaggtggcat gaggggtgac ctcaagctgt gcagtcaaac aagacccagg
5101 tttcagaacc tgcsctgcca catatgagct gagtgatcct gagcaagtca tttcccccc
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- (2) INFORMATION FOR SEQ ID NO:2601:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3625 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2601
- 1 ggccaccgga gcggcccggc gacgatcgct gacagcttcc cctgcccttc ccgtcggtcg 61 ggccgccagc cgccgcagcc ctcggcctgc acgcagccac cggccccgct cccggagccc 121 agegeegeeg aggeegeage egeeeggeea gtaaggegge geegeeegeg geeaeegegg 181 gecetgeegt teeeteegee gegetgegee atggegegge getgaetgge etggeeegge 241 cocgoogogo tecogotogo cocgacoogo actogogoco gocogogoto eggectacog 301 cogectette ettetecage eggeaggeee egeegettag gagggagage ceaecegege 361 caggaggccg aacgcggact cgccacccgg cttcagaatg gcagaagatg atccatattt 421 gggaaggcct gaacaaatgt ttcatttgga tccttctttg actcatacaa tatttaatcc 481 agaagtattt caaccacaga tggcactgcc aacagatggc ccataccttc aaatattaga 541 gcaacctaaa cagagaggat ttcgtttccg ttatgtatgt gaaggcccat cccatggtgg 601 actacctggt gcctctagtg aaaagaacaa gaagtcttac cctcaggtca aaatctgcaa 661 ctatgtggga ccagcaaagg ttattgttca gttggtcaca aatggaaaaa atatccacct 721 gcatgcccac agcctggtgg gaaaacactg tgaggatggg atctgcactg taactgctgg 781 acccaaggac atggtggtcg gcttcgcaaa cctgggtata cttcatgtga caaagaaaaa 841 agtatttgaa acactggaag cacqaatgac agaggcgtgt ataaggggct ataatcctgg 901 actettggtg caccetgace ttgcctattt gcaagcagaa ggtggagggg accggcaget 961 gggagatcgg gaaaaagagc taatccgcca agcagctctg cagcagacca aggagatgga 1021 cctcagcgtg gtgcggctca tgtttacagc ttttcttccg gatagcactg gcagcttcac 1081 aaggcgcctg gaacccgtgg tatcagacgc catctatgac agtaaagccc ccaatqcatc

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1141 caacttgaaa attgtaagaa tggacaggac agctggatgt gtgactggag gggaggaaat
1201 ttatcttctt tgtgacaaag ttcagaaaga tgacatccag attcgatttt atgaaqagga
1261 agaaaatggt ggagtctggg aaggatttgg agattttcc cccacagatg ttcatagaca
1321 atttgccatt gtcttcaaaa ctccaaagta taaagatatt aatattacaa aaccagcctc
1381 tgtgtttgtc cagcttcgga ggaaatctga cttggaaact agtgaaccaa aacctttcct
1441 ctactatcct gaaatcaaag ataaagaaga agtgcagagg aaacgtcaga agctcatgcc
1501 caatttttcg gatagtttcg gcggtggtag tggtgccgga gctggaggcg gaggcatgtt
1561 tggtagtggc ggtggaggag ggggcactgg aagtacaggt ccagggtata gcttcccaca
1621 ctatggattt cctacttatg gtgggattac tttccatcct ggaactacta aatctaatgc
1681 tgggatgaag catggaacca tggacactga atctaaaaag gaccctgaag gttgtgacaa
1741 aagtgatgac aaaaacactg taaacctctt tgggaaagtt attgaaacca cagagcaaga
1801 tcaggagccc agcgaggcca ccgttgggaa tggtgaggtc actctaacgt atgcaacagg
1861 aacaaaagaa gagagtgctg gagttcagga taacctcttt ctagagaagg ctatgcagct
1921 tgcaaagagg catgccaatg cccttttcga ctacgcggtg acaggagacg tgaagatgct
1981 gctggccgtc cagcgccatc tcactgctgt gcaggatgag aatggggaca gtgtcttaca
2041 cttagcaatc atccaccttc attctcaact tgtgagggat ctactagaag tcacatctgg
2101 tttgatttct gatgacatta tcaacatgag aaatgatctg taccagacgc ccttgcactt
2161 ggcagtgatc actaagcagg aagatgtggt ggaggatttg ctgagggctg gggccgacct
2221 gagccttctg gaccgcttgg gtaactctgt tttgcaccta gctgccaaag aaggacatga
2281 taaagttctc agtatcttac tcaagcacaa aaaggcagca ctacttcttg accacccaa
2341 cggggacggt ctgaatgcca ttcatctagc catgatgagc aatagcctgc catgtttqct
2401 getgetggtg geegetgggg etgaegteaa tgeteaggag eagaagteeg ggegeaeage
2461 actgcacctg gctgtggagc acgacaacat ctcattggca ggctgcctgc tcctggaggg
2521 tgatgcccat gtggacagta ctacctacga tggaaccaca cccctgcata tagcagctgg
2581 gagagggtcc accaggctgg cagctcttct caaagcagca ggagcagatc ccctggtgqa
2641 gaactttgag cctctctatg acctggatga ctcttgggaa aatgcaggag aggatgaagg
2701 agttgtgcct ggaaccacgc ctctagatat ggccaccagc tggcaggtat ttgacatatt
2761 aaatgggaaa ccatatgagc cagagtttac atctgatgat ttactagcac aaggagacat
2821 gaaacagetg getgaagatg tgaagetgea getgtataag ttaetagaaa tteetgatee
2881 agacaaaaac tgggctactc tggcgcagaa attaggtctg gggatactta ataatgcctt
2941 ccggctgagt cctgctcctt ccaaaacact tatggacaac tatgaggtct ctgggggtac
3001 agtcagagag ctggtggagg ccctgagaca aatgggctac accgaagcaa ttgaagtgat
3061 ccaggeagee tecageeeag tgaagaeeae eteteaggee eactegetge etetetegee
3121 tgcctccaca aggcagcaaa tagacgagct ccgagacagt gacagtgtct gcgacacggg
3181 cgtggagaca tccttccgca aactcagctt taccgagtct ctgaccagtg gtgcctcact
3241 gctaactctc aacaaaatgc cccatgatta tgggcaggaa ggacctctag aaggcaaaat
3301 ttagcctgct gacaatttcc cacaccgtgt aaaccaaagc cctaaaattc cactgcgttg
3361 tccacaagac agaagctgaa gtgcatccaa aggtgctcag agagccggcc cgcctgaatc
3421 attctcgatt taactcgaga ccttttcaac ttggcttcct ttcttggttc ataaatgaat
3481 tttagtttgg ttcacttaca gatagtatct agcaatcaca acactggctg agcggatgca
3541 tetggggatg aggttgetta ctaagetttg ceagetgetg etggateaea getgetttet
3601 gttgtcattg ctgttgtccc tctgc
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- (2) INFORMATION FOR SEQ ID NO:2602:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1650 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2602
- 1 actttectge ceetteeeg gecaageea acteeggate tegetetea ceggatetea 61 ceegeacac ceggacage ggetggagga ggeggegte taaaattetg ggaageagaa 121 cettggeegga gecactagae agageeggee etageeeaga gacatggaga gttgetacaa 181 ceeaggtetg gatgtatta ttgaatatga tgatteaaa ttgaacteet ecattgtgga 241 acceaaggag ecageeegga aaacagetga tggeeeetae etggtgateg tggaacagee 301 taageagga ggetteegat ttegatatgg etgtgaagge eceteeeag gaggaetgee 361 eggtgeete agtgagaagg geegaaagae etateeeaet gteaagatet gtaactaega 421 gggaeeagee aagategagg tggaeetggt aaeaeaeagt gaeeeaeete gtgeggee 481 ceacagtetg gtgggeaage aatgetegga getggggate tgegeegtte etgtggggee 541 caaggaeatg actgeeeaat ttaacaaeet gggtgteetg eatgtgaeta agaagaaeat 601 gatggggaet atgataeaa aaetteagag geageggete egetetagge eceagggeet 661 taeeggaggee gageagegg agetggagea agaggeeaaa gaaetgaaga aggtgatgga

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721 tctgagtata gtgcggctgc gcttctctgc cttccttaga gccagtgatg gctccttctc
781 cctgccctg aagccagtca cctcccagcc catccatgat agcaaatctc cgggggcatc
841 aaacctgaag atttctcgaa tggacaagac agcaggctct gtgcggggtg gagatgaagt
901 ttatctgctt tgtgacaagg tgcagaaaga tgacattgag gttcggttct atgaggatga
961 tgagaatgga tggcaggcct ttggggactt ctctcccaca gatgtgcata aacagtatgc
1021 cattgtgttc cggacacccc cctatcacaa gatgaagatt gagcggcctg taacagtgtt
1081 tetgeaactg aaacgeaage gaggagggga egtgtetgat tecaaacagt teacetatta
1141 ccctctqqtq qaaqacaaqq aaqaqqtqca qcqqaaqcqq aqqaagqcct tgcccacctt
1201 ctcccagccc ttcgggggtg gctcccacat gggtggaggc tctgggggtg cagccggggg
1261 ctacqqaqqa qctqqaqqaq qtqaqqqqqt actgatqqaq ggaqqqqtaa aggtaagaqa
1321 aqctqtqqaq qaaaaaaatc tqqqqqaqqc cqqqcqtqgc ttqcacqcct gtaatccaqc
1381 ctttgggagg ccaaggcagg cagttacctg agatcaggag ttcaagacca gcttggccaa
1441 cagcgtgaaa cctcgtctct actaaaaata caaacattag ctgggcatgg tggcaggcgc
1501 ctgtaatccc agctactcgg gaggctgagg caggagaatc gcttgaaccc tgggagacaa
1561 gaggttgcag taagctgaga tcacaccact gcactccagg ctgggcaata agagcgaaac
1621 tccgtctcaa aaaaaaaaaa aaaaaaaaaa
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### (2) INFORMATION FOR SEQ ID NO:2603:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3113 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2603
- 1 cacqqtqaqt qqctqqattc agacccctqq qtqqccqqqa caagagaaaa gagggaggag 61 ggcctttagc ggacagcgcc tggggctgga gagcagcagc tgcacacagc cggaaagggc 121 gcgcaggcga cgacactcgg atccacgtcg acaccgttgt acaaagatac gcggacccgc 181 gggcgtctaa aattctggga agcagaacct ggccggagcc actagacaga gccgggccta 241 gcccagagac atggagagtt gctacaaccc aggtctggat ggtattattg aatatgatga 301 tttcaaattg aactcctcca ttgtggaacc caaggagcca gccccagaaa cagctgatgg 361 cccctacctg gtgatcgtgg aacagcctaa gcagagaggc ttccgatttc gatatggctg 421 tgaaggcccc tcccatggag gactgcccgg tgcctccagt gagaagggcc gaaagaccta 481 toccactgte aagatetgta actacgaggg accagecaag ategaggtgg acctggtaac 541 acacagtgac ccacctcgtg ctcatgccca cagtctggtg ggcaagcaat gctcggagct 601 ggggatctgc gccqtttctg tggggcccaa ggacatgact gcccaattta acaacctggg 661 tgtcctgcat gtgactaagg agaacatgat ggggactatg atacaaaaac ttcagaggca 721 gcggctccgc tctaggcccc agggccttac ggaggccgag cagcgggagc tggagcaaga 781 ggccaaagaa ctgaagaagg tgatggatct gagtatagtg cggctgcgct tctctgcctt 841 ccttagagcc agtgatggct ccttctccct gcccctgaag ccagtcatct cccagcccat 901 ccatgacage aaateteegg gggcatcaaa cetgaagatt tetegaatgg acaagacage 961 aggetetgtg eggggtggag atgaagttta tetgetttgt gacaaggtge agaaagatga 1021 cattgaggtt cggttctatg aggatgatga gaatggatgg caggcctttg gggacttctc 1081 tcccacagat gtgcataaac agtatgccat tgtgttccgg acacccccct atcacaagat 1141 gaagattgag cggcctgtaa cagtgtttct gcaactgaaa cgcaagcgag gaggggacgt 1201 gtctgattcc aaacagttca cctattaccc tctggtggaa gacaaggaag aggtgcagcg 1261 gaagcggagg aaggcettge ceaecttete ceagceette gggggtgget cecaeatggg 1321 tggaggetet gggggtgeag eegggggeta eggaggaget ggaggaggtg geageetegg 1381 tttcttcccc tcctcctgg cctacagccc ctaccagtcc ggcgcgggcc ccatgggctg 1441 ctacceggga ggcgggggg gggcgcagat ggccgccacg gtgcccagca gggactccgg 1501 ggaggaagcc gcggagccga gcgcccctc caggaccccc cagtgcgacg cgcaggcccc 1621 cgcccgagcc ctactcgact acggcgtcac cgcggaccgg cgcgcgctgc tggcgggaca 1681 gcgccacctg ctgacggcgc aggacgagaa cggagacaca ccactgcacc tagccatcat 1741 ccacqqqcaq accaqtqtca ttqaqcaqat aqtctatqtc atccaccacg cccaggacct 1801 cggcqttgtc aacctcacca accacctgca ccaqacgccc ctgcacctgg cggtgatcac 1861 ggggcagacg agtgtggtga gctttctgct gcgggtaggt gcagacccag ctctgctgga 1921 teggeatgga gacteageea tgeatetgge getgegggea ggegetggtg etectgaget 1981 gctgcgtgca ctgcttcaga gtggagctcc tgctgtgccc cagctgttgc atatgcctga 2041 ctttgaggga ctgtatccag tacacctggc ggtccgagcc cgaagccctg agtgcctgga 2101 tctgctggtg gacagtgggg ctgaagtgga ggccacagag cggcaggggg gacgaacagc 2161 cttgcatcta gccacagaga tggaggagct ggggttggtc acccatctgg tcaccaagct 2221 ccgggccaac gtgaacgctc gcacctttgc gggaaacaca cccctgcacc tggcagctgg

### (2) INFORMATION FOR SEQ ID NO: 2604:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 13548 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2604

1 agcttcatcc tggagtcaac agattgggtt tgaatcctgg ctctgtccct ttctagctgt 61 gtgtttggtt gttactccac ctctctgagc cttaatttct tcatcagtaa aagtaatatt 121 cacctcctag ggttgttggg agggagaata agaacttcta aagtacccga acctagcaac 181 taggacacta tatttgcagg caagatgaag aggggtgggg aagtaatagg aaacagccca 241 aatcgagagc cataatagtc tctctttact tagtgccagt gcaggcctgt gattctgttc 301 ttaaaaacgt ctggggcaag ctgcaggaaa gacccgagat agcttatgtt ctaccataag 361 ccttaaggga ggaggactcc aggcagggag acttaccatg gcacctctaa gagaaagcct 421 actgaccaga gagaggtcag tcatgtactc ccgtagcttc ttagaatttc tgatctgact 481 cgctgcctct agagttgttc aggtggaaat tggaaggcta tagaggaatt cggcagcata 541 cagtggctca cgtctgtaat ccaaaatcca agcattttgg aaggccaaag taggaggatc 601 acttaagccc aggagtttaa gaccagccta ggcaaccgag tgagatccat ctccactaaa 661 aaattttaaa atttgccagg tatggtggtg tgcacctgta gccccagcta ctcaqqaqaq 721 tcagagaatc ggcgcacccc ggagttcgag gttgcagtga gccatgatca cgccactgta 781 ctccagcctg ggtgacagag aagaccacct gtctcaaaaa acataaataa ataaataaat 841 aaataggccg tgcgcagcgg ctcacgactg taattccaac attttagaag qcqqagqcag 901 cggatcacct gaggtcagga gttcgggacc agcctgacca acgtggtgaa accccaactc 961 tactaaaaat acataaatta gqcqqqqcqt qqtqqtqqcc qcctqtaatc ccaqctactc 1021 ggtaggctgc agcaggagaa tggtttgaac ccgggaggca gaggttgcag tgagccaaaa 1081 tececteact geatteeage etgagactaa aaaaaagagg egattteeca eateggtgga 1141 aatttgaget gtttaaacte tggatgeett ttteagttet aatatteeag ateteettgg 1201 tggataaaca cttcatttcc cttctcctga gcagagctcc tgagccctgg cccgctggaa 1261 cctgtcactt ctaaaaaagt tcgaggtccg gactgtctct cccggagcct tgaggctgat 1321 gagacggagc gagagagggg ccgggggcaa tggagtctac tcgcgggccc agggaggcgc 1381 cagagggccc cgggaccgac cgcaagaata acttccttcc tcttccgcta acttcccggc 1441 agggctacgc tcagggtggg ggccccgagg gctggggcgt cggcttcccc ctggggatcc 1501 cccgcttcag agaagccaag cgttagcgca gccaaagccg gaggcagcga agctccggcc 1561 cggggtggcg ctgggtcagg gtaccttctc ggcggtcccc tggccggccg aactcgcgcc 1621 tggtgtcctg tcaccccgct ccccgccctg agtgagcctg tcccctctca ggggcgcgcc 1681 cgagtcgctc cgggttggct gccaggtcca gagttaaact ttcagccaat gaaaaagggc 1741 gcgagggctg acgcacggaa acgtcatggg aattcccccc tccggggggc cgagaagggg 1801 ctttcccggc cctgagccct gctggcaggc gaggtgtcgc gaccggtccc aggtgggtcg 1861 ggcgcggaga gaagccgcaa ccagagccgc cgccacggtg agtggctgga ttcagacccc 1921 tgggtggccg ggacaagaga aaagagggag gagggccttt agcggacagc gcctggggct 1981 ggagagcagc agctgcacac agccggaaag ggcgcgcagg cgacgacact cggatccacg 2041 tegacacegt tgtacaaaga tacgeggace egtacgtaca cetgtacetg tgctggegea 2101 cacacggcag cgtccgtgca gtcgcactcg cacacacatg cacacggaga cgtgcccacc 2161 ggtgcactgg tgcctgcacc cacacccttc acgcacaaac tcaagatacg ctcacccgtg 2221 tetgtacate aagacaggeg etgacacaca cecacactga gaageteggg atteacetat 2281 ctacacacat gctcgcttgc acactcatgt tgacgccatg gacacacaac atgcaaccaa 2341 gcactacage egaaacacae ttgtggaget gtgatggaga cacactettg tattaggtgg

0.00	-					
240.	l ggggggggg	, ggagcgtgca	gagatctccc	tgtcgcctgc	gcgcccagaa	ccggtgcggt
246	l gtgggaccac	, ctgctgttgt	gaggtttggg	agagagagaa	aaagagccca	ctccgaggag
2521	l gagacacttt	: tcccgcagcc	ccagaatcgc	gttctcgggg	cagaaccccg	gggcctccca
2581	l caggaaagag	r ccccgcctac	aggctgttcg	aaggggaggc	cgtccgacag	caggaatgtc
2641	l cccccaaaag	ccccggggt	ttatcagccg	tggcctccct	cctggcagaa	aatcccaagg
2701	l ttgctccaga	ccgggggagg	ggagcgggag	gcggacttgg	ccccagactg	ccagcctcct
276]	l cccggccgtg	r aaagaccctc	ctgttccctg	ccctggaggg	aggaggggc	ttaacccacc
2821	l ggggcttccc	ggattctcct	agacctctgc	ccgctgaaaa	gcagcgggac	gccgtagact
2881	l gtcgagggcc	atcccgccc	tcccgtcgcg	agggcggggc	cagtggcgtc	atttccaggc
2941	l ccgccccctc	cggccccgcc	tccccttggt	attttcggga	ctttcctaag	ctgctctaac
3001	tttcctgccc	cttccccgcc	aagcccaact	ccggatctcg	ctctccacca	gateteacce
3061	gccacacccg	gacaggegge	tagaggaggt	cggaccctcc	cccaaatctq	gaccccatt
3121	ctcccgccca	ccccattta	gatctgaccc	cctccccac	accactcctc	ccaactttag
3181	gcgggcgtct	aaaattctgg	gaagcagaac	ctaaccaaaa	ccactagaca	gaaccaaacc
3241	tagcccagag	acatggagag	ttgctacaac	ccagtgagtg	ataccaccta	ccctaaccc
3301	ggccggctag	cccctcatat	ctatccacct	atctaccca	accecetact	getgeettee
3361	. acctgtatgc	ctcgcagatg	ctctcagcct	acceptetat	gccccctact	gergeerrae
3421	. ctccaaaagg	acctttctct	tagatataa	gecageeege	gagtgagaga	tananath
3481	. gaagatggga	agtaggata	atataaaaa	tastasas	gagtgaccac	tgaagacttg
3541	tetecaaace	aggatataga	######################################	cgctyagagt	cggatgccac	ccccagtetg
3601	. tctccaaacc	agggcccgga	cygtattatt	gaatatgatg	atttcaaatt	gaactcctcc
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601 caaaaattag caatggaaac gctggaggaa ttagactggt gtttagacca gctagagacc 661 atacagacct accggtctgt cagtgagatg gcttctaaca agttcaaaag aatgctgaac 721 cgggagctga cacacctctc agagatgagc cgatcaggga accaggtgtc tgaatacatt

(2) INFORMATION FOR SEQ ID NO:2606:

- (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 348 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

2161 aca

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2606
- 1 tatcacaaca gcatgcacge agccgatgtt acccagacag tccattgctt cttgctccgc 61 acagggatgg tgcactgcct gtcggagatt gagctcctgg ccatcatctt tgctgcagct
- 121 atccatgatt atgagcacac gggcactacc aacagcttcc acatccagac caagtcagaa
- 181 tgtgccatcg tgtacaatga tcgttcagtg ctggagaatc accacatcag ctctgttttc
- 241 cgattgatgc aggatgatga gatgaacatt ttcatcaacc tcaccaagga tgagtttgta
- 301 gaactccgag ccctggtcat tgagatggtg ttggctacag atatggca
- (2) INFORMATION FOR SEQ ID NO: 2607:

```
(A) LENGTH: 2511 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEO ID NO: 2607
   1 atgacagcaa aagattcttc aaaggaactt actgcttctg aacctgaggt ttgcataaag
  61 actttcaagg agcaaatgca tttagaactt gagcttccga gattaccagg aaacagacct
 121 acatetecta aaatttetee aegeagttea eeaaggaaet caecatgett ttteagaaag
 181 ttactggtga ataaaagcat tcggcagcgt cgtcgcttca ctgtggctca tacatgcttt
 241 gatgtggaaa atggcccttc cccaggtcgg agtccactgg atccccaggc cagctcttcc
 301 gctgggctgg tacttcacgc cacctttcct gggcacagcc agcgcagaga gtcatttctc
 421 ccaagcgagc aacacggcga tgacttgatt gtaactcctt ttgcccaggt ccttgccagc
 481 ttgcgaagtg tgagaaacaa cttcactata ctgacaaacc ttcatggtac atctaacaag
 541 aggtccccag ctgctagtca gcctcctgtc tccagagtca acccacaaga agaatcttat
 601 caaaaattag caatggaaac gctggaggaa ttagactggt gtttagacca gctagagacc
 661 atacagacct accggtctgt cagtgagatg gcttctaaca agttcaaaag aatgctgaac
 721 cgggagctga cacacctctc agagatgagc cgatcaggga accaggtgtc tgaatacatt
 781 tcaaatactt tcttagacaa gcagaatgat gtggagatcc catctcctac ccagaaagac
 841 agggagaaaa agaaaaagca gcagctcatg acccagataa gtggagtgaa gaaattaatg
 901 catagttcaa gcctaaacaa tacaagcatc tcacgctttg gagtcaacac tgaaaatgaa
 961 gatcacctgg ccaaggagct ggaagacctg aacaaatggg gtcttaacat ctttaatgtg
1021 gctggatatt ctcacaatag acccctaaca tgcatcatgt atgctatatt ccaggaaaga
1081 gacctcctaa agacattcag aatctcatct gacacattta taacctacat qatqacttta
1141 gaagaccatt accattctga cgtggcatat cacaacagcc tgcacgctgc tgatgtagcc
1201 cagtcgaccc atgttctcct ttctacacca gcattagacg ctgtcttcac agatttggag
1261 atcctggctg ccatttttgc agctgccatc catgacgttg atcatcctgg agtctccaat
1321 cagtttctca tcaacacaaa ttcagaactt gctttgatgt ataatgatga atctgtqttg
1381 gaaaatcatc accttgctgt gggtttcaaa ctgctgcaag aagaacactg tgacatcttc
1441 atgaatetea eeaagaagea gegteagaea eteaggaaga tggttattga eatggtgtta
1501 gcaactgata tgtctaaaca tatgagcctg ctggcagacc tgaagacaat ggtagaaacg
1561 aagaaagtta caagttcagg cgttcttctc ctagacaact ataccgatcg cattcaggtc
1621 cttcgcaaca tggtacactg tgcagacctg agcaacccca ccaaqtcctt qqaattgtat
1681 cggcaatgga cagaccgcat catggaggaa tttttccagc agggagacaa agagcgggag
1741 aggggaatgg aaattagccc aatgtgtgat aaacacacag cttctgtgga aaaatcccag
1801 gttggtttca tcgactacat tgtccatcca ttgtgggaga catgggcaga tttggtacag
1861 cctgatgctc aggacattct cgatacctta gaagataaca ggaactggta tcaqaqcatq
1921 atacctcaaa gtccctcacc accactggac gagcagaaca gggactgcca gggtctgatg
1981 gagaagtttc agtttgaact gactctcgat gaggaagatt ctgaaggacc tgagaaggag
2041 ggagagggac acagctattt cagcagcaca aagacgcttt gtgtgattga tccagaaaac
2101 agagattccc tgggagagac tgacatagac attgcaacag aagacaagtc ccccgtggat
2161 aca
   1 tatcacaaca gcatgcacgc agccgatgtt acccagacag tccattgctt cttgctccgc
  61 acagggatgg tgcactgcct gtcggagatt gagctcctgg ccatcatctt tgctgcagct
121 atccatgatt atgagcacac gggcactacc aacagcttcc acatccagac caagtcagaa
181 tgtgccatcg tgtacaatga tcgttcagtg ctggagaatc accacatcag ctctgttttc
241 cgattgatgc aggatgatga gatgaacatt ttcatcaacc tcaccaagga tgagtttgta
301 gaactccgag ccctggtcat tgagatggtg ttggctacag atatggca
```

## (2) INFORMATION FOR SEQ ID NO:2608:

(i) SEQUENCE CHARACTERISTICS:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2372 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2608
- 1 gggccgccgt cggcgcgctg ggtgcgggaa gggggctctg gatttcggtc cctcccttt
- 61 ttcctctgag tctcggaacg ctccagctct cagaccctct tcctcccagg taaaggccgg
- 121 gagaggaggg cgcatctctt ttccaggcac cccaccatgg gcaatgcctc caatgactcc
- 181 cagtctgagg actgcgagac gcgacagtgg cttcccccag gcgaaagccc agccatcagc
- 241 teegteatgt teteggeegg ggtgetgggg aaceteatag caetggeget getggegege

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301 cgctggcggg gggacgtggg gtgcagcgcc ggccgcagga gctccctctc cttgttccac
 361 gtgctggtga ccgagctggt gttcaccgac ctgctcggga cctgcctcat cagcccagtg
 421 gtactggctt cgtacgcgcg gaaccagacc ctggtggcac tggcgcccga gagccgcgcg
 481 tgcacctact tcgctttcgc catgaccttc ttcagcctgg ccacgatgct catgctcttc
 541 gccatggccc tggagcgcta cctctcgatc gggcacccct acttctacca gcgccgcgtc
 601 teggeeteeg ggggeetgge egtgetgeet gteatetatg eagteteect getettetge
 661 tcgctgccgc tgctggacta tgggcagtac gtccagtact gccccgggac ctggtgcttc
 721 atccggcacg ggcggaccgc ttacctgcag ctgtacgcca ccctgctgct gcttctcatt
 781 gtctcggtgc tcgcctgcaa cttcagtgtc attctcaacc tcatccgcat gcaccgccga
 841 agccggagaa gccgctgcgg accttccctg ggcagtggcc ggggcggccc cggggcccgc
 901 aggagaggg aaagggtgtc catggcggag gagacggacc acctcattct cctggctatc
 961 atgaccatca ccttcgccgt ctgctccttg cctttcacga tttttgcata tatgaatgaa
1021 acctettece gaaaggaaaa atgggaeete caagetetta ggtttttate aattaattea
1081 ataattgacc cttgggtctt tgccatcctt aggcctcctg ttctgagact aatgcgttca
1141 gtcctctgtt gtcggatttc attaagaaca caagatgcaa cacaaacttc ctgttctaca
1201 cagtcagatg ccagtaaaca ggctgacctt tgaggtcagt agtttaaaag ttcttagtta
1261 tatagcatct ggaagatcat tttgaaattg ttccctggag aaatgaaaac agtgtgtaaa
1321 caaaatgaag ctgccctaat aaaaaggagt atacaaacat ttaagctgtg gtcaaggcta
1381 cagatgtgct gacaaggcac ttcatgtaaa gtgtcagaag gagctacaaa acctaccctc
1441 aatgagcatg gtacttggcc tttggaggaa caatcggctg cattgaagat ccagctgcct
1501 attgatttaa gctttcctgt tgaatgacaa agtatgtggt tttgtaattt gtttgaaacc
1561 ccaaacagtg actgtacttt ctattttaat cttgctacta ccgttataca catatagtgt
1621 acagccagac cagattaaac ttcatatgta atctctagga agtcaatatg tggaagcaac
1681 caageetget gtettgtgat caettagega accetttatt tgaacaatga agttgaaaat
1741 cataggcacc ttttactgtg atgtttgtgt atgtgggagt actctcatca ctacagtatt
1801 actottacaa gagtggactc agtgggttaa catcagtttt gtttactcat cctccaggaa
1861 ctgcaggtca agttgtcagg ttatttattt tataatgtcc atatgctaat agtgatcaag
1921 aagactttag gaatggttct ctcaacaaga aataatagaa atgtctcaag gcagttaatt
1981 ctcattaata ctcttattat cctatttctg ggggaggatg tacgtggcca tgtatgaagc
2041 caaatattag gcttaaaaac tgaaaaatct ggttcattct tcagatatac tggaaccctt
2101 ttaaagttga tattggggcc atgagtaaaa tagattttat aagatgactg tgttgtacca
2161 aaattcatct gtctatattt tatttagggg aacatggttt gactcatctt atatgggaaa
2221 ccatgtagca gtgagtcata tcttaatata tttctaaatg tttggcatgt aaatgtaaac
2281 tcagcatcaa aatatttcag tgaatttgca ctgtttaatc atagttactg tgtaaactca
2341 tctgaaatgt tacaaaaata aactataaaa ca
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- (2) INFORMATION FOR SEQ ID NO:2609:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1376 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2609
- 1 gggggcggca gggctgagcg gccggtgatg gggaccccac atcccaggca gtgccggcac 121 ccacatgcgc ggcgccctgg gtccccaaca cgtcggccgt gccgccgtcg ggcgcttcgc 181 ccgcgctgcc catcttctcc atgacgctgg gcgccgtgtc caacctgctg gcgctggcgc 241 tgctggcgca ggccgcgggc cgcctgcgac gccgccgctc ggccaccacc ttcctgctgt 301 tcgtggccag cctgctggcc accgacctgg cgggccacgt gatcccgggc gcgctggtgc 361 tgcgtctgta cactgcgggg cgcgctccgg ccggcggggc ctgccacttc ctgggcggct 421 gcatggtett etteggeetg tgeeegetge tgetgggetg tggeatggee gtggageget 481 gcgtgggcgt cacgcggccg ctgctccacg ccgcgcgggt ctcggtcgcc cgcgcgcgcc 541 tggcgctggc cgcggtggcc gcggtggcct tggccgtggc gctgctgccg ctggcgcgcg 601 tgggccgcta tgagctgcag tacccgggca cgtggtgctt catcggcctg ggtcccccgg 661 gcggctggcg ccaggcactg cttgctggcc tcttcgccag cctcggcctg gtcgcgctcc 721 tegeogeget ggtgtgcaac acgeteageg geetggeect geategegee egetggegae 781 gccgctcccg acggcctccc ccggcctcag gccccgacag ccggcgtcgc tgggggggcgc 841 acggaccccg ctcggcctcc gcctcgtccg cctcgtccat cgcttcggcc tccaccttct 901 ttggcggctc tcggagcagc ggctcggcac gcagagctcg cgcccacgac gtggagatgg 961 tgggccaget tgtcggtate atggtggtgt cgtgcatetg ctggageeca atgetggtgt 1021 tggtggcgct ggccgtcggc ggctggagct ctacctccct gcagcggcca ctgttcctgg 1081 ccgtgcgcct tgcctcctgg aaccagatcc tggacccttg ggtgtacatc ctactgcgcc

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1141 aggccgtgct gcgccaactg cttcgcctct tgcccccgag ggccggagcc aagggcggcc
 1201 ccgcggggct gggcctaaca ccgagcgcct gggaggccag ctcgctgcgc agctcccggc
 1261 acagcggcct cagccacttc taagcacaac cagaggccca acgactaagc cagcccaccc
 1321 tgggctgggc ccaggtgcgc ggcgcagagc ctttgggaat aaaaagccat tctgcg
(2) INFORMATION FOR SEO ID NO: 2610:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1077 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2610
    1 atgggcaatg cctccaatga ctcccagtct gaggactgcg agacgcgaca gtggcttccc
   61 ccaggcgaaa gcccagccat cagctccgtc atgttctcgg ccggggtgct ggggaacctc
  121 atagcactgg cgctgctggc gcgccgctgg cggggggacg tggggtgcag cgccggccgc
  181 aggagetece teteettgtt ceaegtgetg gtgacegage tggtgtteae egacetgete
 241 gggacctgcc tcatcagccc agtggtactg gcttcgtacg cgcggaacca gaccctggtg
 301 gcactggcgc ccgagagccg cgcgtgcacc tacttcgctt tcgccatgac cttcttcagc
 361 ctggccacga tgctcatgct cttcgccatg gccctggagc gctacctctc gatcgggcac
 421 ccctacttct accagegeeg egtetegege teegggggee tggeegtget geetgteate
 481 tatgcagtct ccctgctctt ctgctcgctg ccgctgctgg actatgggca gtacgtccag
 541 tactgccccg ggacctggtg cttcatccgg cacgggcgga ccgcttacct gcagctgtac
 601 gccaccctgc tgctgcttct cattgtctcg gtgctcgcct gcaacttcag tgtcattctc
 661 aacctcatcc gcatgcaccg ccgaagccgg agaagccgct gcggaccttc cctgggcagt
 721 ggccggggcg gccccggggc ccgcaggaga ggggaaaggg tgtccatggc ggaggagacg
 781 gaccacctca ttctcctggc tatcatgacc atcaccttcg ccgtctgctc cttgcctttc
 841 acgatttttg catatatgaa tgaaacctct tcccgaaagg aaaaatggga cctccaagct
 901 cttaggtttt tatcaattaa ttcaataatt gaccettggg tetttgecat eettaggeet
 961 cctgttctga gactaatgcg ttcagtcctc tgttgtcgga tttcattaag aacacaagat
1021 gcaacacaaa cttcctgttc tacacagtca gatgccagta aacaggctga cctttga
(2) INFORMATION FOR SEQ ID NO:2611:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1241 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2611
    1 ctgcagatgg gaagaggttt ttccaggaat ttaaattgtg caataaggcc acacaatctt
  61 acttaaaaaa aatggtgaag gggttttaat tacaccatga agttttacaa ttttttaggt
 121 ttttagttct ggttttagaa aacagagtag aaggattaac agagaaaaac ttcaccatta
 181 gacaagaagt caaaatgatt ctaagggccg cgcaaacagg ctttccaaga attaatcatg
 241 aggtggtgct tggagaattc ctttactcca gtgactttga aacccccttc tcactctcca
 301 ctagtettte aaaggattea tggtgaattg ggtetaacga gtataacacg geeggeegaa
 361 cgatgaaget cacgetacee tttcagggeg gagaagttee caggaggaag aatggagaaa
 421 aagategeag ttaggeagte eteceaacet caccaagget ceacetetet ecaaageege
 481 aacgtgctgc cacctgcgcc gggagaggct gcaatcactg tctcctcctc tttcttctc
 541 ttttttttt tttcttttt gcctggggtg cccgaccaag cgcagccgca gtctgggcac
 601 tgccaactga ctccaactcc ttttatggtg agaggatgga ttcttcgtta tttccccgcc
 661 caatctggta cccacccacc cacccaccca ccacgtccgc tgggcgcacc caagtctaac
 721 cccggggcgc acgccgtagc gcagacaccg tatttctcct cctttctcgg ccaaccctag
 781 gtagaatcct aaaacaactg ccctctcttc cacgatctag atgttgcggc ccgcggacag
 841 gaggttcaag aaatagtaca ctccgagcgg caggcagcga gagcggaaac ggtcgccggt
 901 ttcagtggtg gccccactgg aagccgagtt caggagcggc taagcgtcgc cggggaaagc
 961 accggggett cccagggtct cctccgagtt cccactccgc acctccgagg gcgtgaaaac
1021 cacgggagee geeegeeeeg egegeeeage eeegeeeeag eeeagaeaee geeeeeegee
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(2) INFORMATION FOR SEQ ID NO:2612:

1201 gtttgtacag agggtggaaa ggccgcagca cgcgagctcc a

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2154 base pairs

1081 agtetteeet geggegeeca gggaggaege egteegeece etteeaatee ggeeaatggg 1141 egeeegggea gegegeggtt tgeeteegee teegeeaggg aaaettggag gaggagaaaa

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2612 1 agcccggcag cccgagagga agatgaacag ccccaggcca gagcctctgc gagagtggac 61 cccgagccgc ccccaggtag ccaggagcgg cctcagcggc agccgcaaac tccagtagcc 121 gcccgtgctg cccgtgctgg ggcggagggc agccagagct ggggaccaag gctccgcgcc 181 acctgggcac agcctcacac ctgaacgctg tcctcccgca gacgagaccg gcgggcactg 241 caaagctggg actcgtcttt gaaggaaaaa aaatagcgag taagaaatcc agcaccattc 301 ttcactgacc catcocgctg cacctcttgt ttcccaagtt tttgaaagct ggcaactctg 361 accteggtgt ccaaaaatcg acagecactg agaceggett tgagaageeg aagatttgge 421 agtttccaga ctgagcagga caaggtgaaa qcaggttgga gqcqqgtcca ggacatctga 481 gggctgaccc tgggggctcg tgaggctqcc accqctqctg ccqctacagg tgagatggcg 541 ttgggctgac gttggggtca acgggtagag aacgagggat gccgccctcg ccgaagagag 601 ccaagagggg aagagcgcc tctccaaatt gcttttgtaa cttgttttca gtgagcattt 661 tattgattca gaatctatcq agaataqcac taqcqaqcta ctttcccctt qaqatqqqtc 721 ttattcatct tggcaatgga gtgagttgga ttgtggggag gaagaggaat gggaaaatca 781 gtttataaat attaatgtca gccaagagtg tgctgttggc aggacgtatc gcgagcctgg 841 agattttggt ggccgcagtt ggtaagtggc tacaatccag aaagtaggat cgagttgctc 901 cccttgtctt atcagtgtat cgtttctcgg gcgcgggtct aacaccttac aagtggtaat 961 ttccgctcac ggcagctttg tctctcttct accatcccca gacccagcct tgcactccaa 1021 ggctgcgcac cgccagccac tatcatgtcc actcccgggg tcaattcgtc cgcctccttg 1081 agccccgacc ggctgaacag cccagtaacc atcccggcgg tgatgttcat cttcggggtg 1141 gtgggcaacc tggtggccat cgtggtgctg tgcaagtcgc gcaaggagca gaaggagacg 1201 accttctaca cgctggtatg tgggctggct gtcaccgacc tgttgggcac tttgttggtg 1261 agcccggtga ccatcgccac gtacatgaag ggccaatggc ccgggggcca gccgctgtgc 1321 gagtacagca cottoattot gotottotto agcotgtoog gootcagcat catotgogco 1381 atgagtgtcg agcgctacct ggccatcaac catgcctatt tctacagcca ctacgtggac 1441 aagcgattgg cgggcctcac gctctttgca gtctatgcgt ccaacgtgct cttttgcgcg 1501 ctgcccaaca tgggtctcgg tagctcgcgg ctgcagtacc cagacacctg gtgcttcatc 1561 gactggacca ccaacgtgac ggcgcacgcc gcctactcct acatgtacgc gggcttcagc 1621 teetteetea ttetegeeae egteetetge aaegtgettg tgtgeggege getgeteege 1681 atgcaccgcc agttcatgcg ccgcacctcg ctgggcaccg agcagcacca cgcggccgcg 1741 geogeotegg ttgcctcccg gggccacccc getgcctccc cagcettgcc gegcctcagc 1801 gactttegge geegeeggag etteegeege ategegggeg eegagateea gatggteate 1861 ttactcattg ccacctccct ggtggtgctc atctgctcca tcccgctcgt ggtgagtgac 1921 cgggggtggg gccctactcg gcctttttct cgcatccacc tcccgcgtcc attccccgct 1981 ccctgttttc cctctgagtc cttgggagtg aacgtgtcgc ctttaggtcg gggctgggat 2041 teccacactg ttteteagag gaggeecaae ceetetttgg aagteecaae eetaaegega 2101 tttagcaggt gctttggccc tacatccccc agtttatgtt tcccggaagg ctqq (2) INFORMATION FOR SEQ ID NO:2613: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 840 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2613 1 agcccatgac tggtttttct gaggcttatt atgtagcttc ctcttttcct ggaacttgtt 61 accagaaatg aaggcagctt cctaatattg ataaggtaga catagcattt atatgttttc 121 ccaattgatt aatgatgaaa tctaaatgtg cgactcactt atgcaggtgc gagtattcgt 181 caaccagtta tatcagccaa gtttggagcg agaagtcagt aaaaatccag atttgcaggc 241 catccgaatt gcttctgtga accccatcct agacccctgg atatatatcc tcctgaqaaa 301 gacagtgctc agtaaagcaa tagagaagat caaatgcctc ttctgccqca ttgqcqqqtc 361 ccgcagggag cgctccggac agcactgctc agacagtcaa aggacatctt ctgccatgtc 421 aggccactet egeteettea teteceggga getgaaggag ateageagta cateteagae 481 cctcctgcca gacctctcac tgccagacct cagtgaaaat ggccttggag gcaggaattt

541 gettecaggt gtgeetggea tgggeetgge eeaggaagae accaeeteae tgaggaettt 601 gegaatatea gagaeeteag actetteaea gggteaggae teagagagtg tgttaetggt 661 ggatgagget ggtggaageg geagggeagg geetgeeeet aaggggaget eeetgeaagt 721 cacattteee agtgaaacae tgaaettate agaaaaatgt atataatagg eaaggaaaga 781 aatacagtae tgtttetgga eeettataaa ateetgtgea atagaeacat acatgteaea

- (2) INFORMATION FOR SEQ ID NO: 2614:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 9060 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2614

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### (2) INFORMATION FOR SEQ ID NO:2615:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4866 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2615

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(2) INFORMATION FOR SEO ID NO: 2616:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1016 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2616
   1 gtcgaggatc cctaaagtcc tttgaagctt tcatattctg taacttttgt gccaagaagg
  61 ccttacagtg agatgggatc ccagtattta ttgagtttcc tcattcataa aatggggata
 121 ataatagtaa atgagttgac acgcgctaag acagtggaat agtggctggc acagataagc
 181 cctcggtaaa tggtagccaa taatgataga gtatgctgta agatatcttt ctctccctct
 241 gcttctcaac aagtctctaa tcaattattc cactttataa acaaggaaat agaactcaaa
 301 gacattaagc acttttccaa aggtcgctta gcaagtaaat gggagagacc ctatgaccag
 361 gatgaaagca agaaattccc acaagaggac tcattccaac tcatatcttg tgaaaaggtt
 421 cccaatgccc agctcagatc aactgcctca atttacagtg tgagtgtgct cacctccttt
 481 ggggactgta tatccagagg accetectea ataaaacact ttataaataa catcetteca
 541 tggatgaggg aaaggaggta agatctgtaa tgaataagca ggaactttga agactcagtg
 601 actcagtgag taataaagac tcagtgactt ctgatcctgt cctaactgcc actccttgtt
 661 gtcccaaqaa aqcqqcttcc tqctctctga ggaggacccc ttccctggaa ggtaaaacta
 721 aggatgtcag cagagaaatt tttccaccat tggtgcttgg tcaaagagga aactgatgag
 781 ctcactctag atgagagagc agtgagggag agacagagac tcgaatttcc ggagctattt
 841 cagttttctt ttccgttttg tgcaatttca cttatgatac cggccaatgc ttggttgcta
 901 ttttggaaac tccccttagg ggatgcccct caactggccc tataaagggc cagcctgagc
 961 tgcagaggat caagacagca cgtggacctc gcacagcctc tcccacaggt accatg
(2) INFORMATION FOR SEQ ID NO:2617:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1160 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2617
   1 cctccgacag cctctccaca ggtaccatga aggtctccgc ggcacgcctc gctgtcatcc
  61 tcattgctac tgccctctgc gctcctgcat ctgcctcccc atattcctcg gacaccacac
 121 cctgctgctt tgcctacatt gcccgcccac tgccccgtgc ccacatcaag gagtatttct
 181 acaccagtgg caagtgctcc aacccagcag tcgtctttgt cacccgaaag aaccgccaag
 241 tqtqtqccaa cccaqaqaaq aaatgggttc gggagtacat caactctttg gagatgagct
 301 aggatggaga gtccttgaac ctgaacttac acaaatttgc ctgtttctgc ttgctcttgt
 361 cctagcttgg gaggcttccc ctcactatcc taccccaccc gctccttgaa gggcccagat
 421 tctgaccacg acgagcagca gttacaaaaa ccttccccag gctggacgtg gtggctcagc
 481 cttgtaatcc cagcactttg ggaggccaag gtgggtggat cacttgaggt caggagttcg
 541 agacagcctg gccaacatga tgaaacccca tgtgtactaa aaatacaaaa aattagccgg
 601 gcgtggtagc gggcgcctgt agtcccagct actcgggagg ctgaggcagg agaatggcgt
 661 gaacccggga gcggagcttg cagtgagccg agatcgcgcc actgcactcc agcctgggcg
 781 gcgtqqtqqc ccacqcctgt aatcccagct actcgggagg ctaaggcagg aaaattgttt
 841 gaacccagga ggtggaggct gcagtgagct gagattgtgc cacttcactc cagcctgggt
 901 gacaaagtga gactccgtca caacaacaac aacaaaaagc ttccccaact aaagcctaga
 961 agagettetg aggegetget ttgtcaaaag gaagteteta ggttetgage tetggetttg
 1021 ccttggcttt gcaagggctc tgtgacaagg aaggaagtca gcatgcctct agaggcaagg
```

- (2) INFORMATION FOR SEQ ID NO:2618:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2176 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

1141 gcaaacatga aaaatcgggg

1081 aagggaggaa cactgcactc ttaagcttcc gccgtctcaa cccctcacag gagcttactg

```
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2618
  1 gtcgaggatc cctaaagtcc tttgaagctt tcatattctg taacttttgt gccaagaagg
 61 ccttacagtg agatgggatc ccagtattta ttgagtttcc tcattcataa aatggggata
121 ataataqtaa atqaqttgac acqcqctaaq acaqtqqaat aqtqqctqqc acaqataaqc
181 cctcggtaaa tggtagccaa taatgataga gtatgctgta agatatcttt ctctccctct
241 gcttctcaac aagtctctaa tcaattattc cactttataa acaaggaaat agaactcaaa
301 qacattaaqc acttttccaa aqqtcqctta qcaaqtaaat qqqaqaqacc ctatqaccaq
361 gatgaaagca agaaattccc acaagaggac tcattccaac tcatatcttg tgaaaaggtt
421 cccaatgccc agctcagatc aactgcctca atttacagtg tgagtgtgct cacctccttt
481 ggggactgta tatccagagg accetectca ataaaacact ttataaataa catcetteca
541 tggatgaggg aaaggaggta agatctgtaa tgaataagca ggaactttga agactcagtg
601 actcagtgag taataaagac tcagtgactt ctgatcctgt cctaactgcc actccttgtt
661 gtcccaagaa agcggcttcc tgctctctga ggaggacccc ttccctggaa ggtaaaacta
721 aggatgtcag cagagaaatt tttccaccat tggtgcttgg tcaaagagga aactgatgag
781 ctcactctag atgagagag agtgagggag agacagagac tcgaatttcc ggagctattt
841 cagttttctt ttccgttttg tgcaatttca cttatgatac cggccaatgc ttggttgcta
901 ttttggaaac tccccttagg ggatgcccct caactggccc tataaagggc cagcctgagc
961 tgcagaggat caagacagca cgtggacctc gcacagcctc tcccacaggt accatg
  1 cctccgacag cctctccaca ggtaccatga aggtctccgc ggcacgcctc gctgtcatcc
 61 tcattgctac tgccctctgc gctcctgcat ctgcctcccc atattcctcg gacaccacac
121 cctgctgctt tgcctacatt gcccgcccac tgccccgtgc ccacatcaag gagtatttct
181 acaccagtgg caagtgctcc aacccagcag tcgtctttgt cacccgaaag aaccgccaag
241 tgtgtgccaa cccagagaag aaatgggttc gggagtacat caactctttg gagatgagct
301 aggatggaga gtccttgaac ctgaacttac acaaatttgc ctgtttctgc ttgctcttgt
361 cctagcttgg gaggcttccc ctcactatcc taccccaccc gctccttgaa gggcccagat
 421 tetgaceacg acgageagea gttacaaaaa cetteeceag getggaegtg gtggeteage
481 cttgtaatcc cagcactttg ggaggccaag gtgggtggat cacttgaggt caggagttcg
541 agacagcctg gccaacatga tgaaacccca tgtgtactaa aaatacaaaa aattagccgg
601 gcgtggtagc gggcgcctgt agtcccagct actcgggagg ctgaggcagg agaatggcgt
 661 gaacccggga gcggagcttg cagtgagccg agatcgcgcc actgcactcc agcctgggcg
721 acagagcgag actccgtctc aaaaaaaaaa aaaaaaaaa aaaaaataca aaaattagcc
781 gcgtggtggc ccacgcctgt aatcccagct actcgggagg ctaaggcagg aaaattgttt
841 gaacccagga ggtggaggct gcagtgagct gagattgtgc cacttcactc cagcctgggt
 901 gacaaagtga gactccgtca caacaacaac aacaaaaagc ttccccaact aaagcctaga
 961 agagettetg aggegetget ttgtcaaaag gaagteteta ggttetgage tetggetttg
1021 ccttggcttt gcaagggctc tgtgacaagg aaggaagtca gcatgcctct aqaqqcaagg
1081 aagggaggaa cactgcactc ttaagcttcc gccgtctcaa cccctcacag gagcttactg
1141 gcaaacatga aaaatcgggg
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- (2) INFORMATION FOR SEQ ID NO: 2619:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4003 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2619
  - 1 attaaacctc tcgccgagcc cctccgcaga ctctgcgccg gaaagtttca tttgctgtat 61 gccatcctcg agagctgtct aggttaacgt tcgcactctg tgtatataac ctcgacagtc 121 ttggcaccta acgtgctgtg cgtagctgct cctttggttg aatccccagg cccttgttgg 181 ggcacaaggt ggcaggatgt ctcagtggta cgaacttcag cagcttgact caaaattcct 241 ggagcaggtt caccagcttt atgatgacag ttttcccatg gaaatcagac agtacctggc 301 acagtggtta gaaaagcaag actgggagca cgctgccaat gatgttcat ttgccaccat 361 ccgtttcat gacctcctgt cacagctga tgatcaatat agtcgcttt ctttggagaa 421 taacttcttg ctacagcata acataaggaa aagcaagcgt aatcttcag ataatttca 481 ggaagaccca atccagatgt ctatgatcat ttacagctgt ctgaaggaag aaaggaaaat 541 tctggaaaac gcccagagat ttaatcaggc tcagtcgggg aatattcaga gcacagtgat 601 gttagacaaa cagaagagc ttgacagtaa agtcagaaat gtgaaggaca aggttatgtg 661 tatagagcat gaaatcaaga gcctggaaga tttacaagat ggaatatgact tcaaatgcaa 721 aaccttgcag aacagagaac acgagaccaa tggtgtggca aagagtgatc agaaacaaga 781 acagctgtta ctcaagaaga tgtatttaat gcttgacaat aagagaaagg aagtagtca 841 caaaataata gagttgctga atgtcactga acctaccag aatgtccctga ttaatgatga

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901 actagtggag tggaagcgga gacagcagag cgcctgtatt ggggggccgc ccaatgcttg
 961 cttggatcag ctgcagaact ggttcactat agttgcggag agtctgcagc aagttcggca
1021 gcagcttaaa aagttggagg aattggaaca gaaatacacc tacgaacatg accctatcac
1081 aaaaaacaaa caagtgttat gggaccgcac cttcagtctt ttccagcagc tcattcagag
1141 ctcgtttgtg gtggaaagac agccctgcat qccaacqcac cctcaqaqqc cgctgqtctt
1201 gaagacaggg gtccagttca ctgtgaagtt gagactgttg gtgaaattgc aagagctgaa
1261 ttataatttg aaagtcaaag tcttatttga taaagatgtg aatgagagaa atacagtaaa
1321 aggatttagg aagttcaaca ttttgggcac gcacacaaaa gtgatgaaca tggaggagtc
1381 caccaatggc agtctggcgg ctgaatttcg gcacctgcaa ttgaaagaac agaaaaatgc
1441 tggcaccaga acgaatgagg gtcctctcat cgttactgaa gagcttcact cccttagttt
1501 tgaaacccaa ttgtgccagc ctggtttggt aattgacctc gagacgacct ctctgcccgt
1561 tgtggtgatc tccaacgtca gccagctccc gagcggttgg gcctccatcc tttggtacaa
1621 catgctggtg gcggaaccca ggaatctgtc cttcttcctg actccaccat gtgcacgatg
1681 ggctcagett tcagaagtgc tgagttggca gttttcttct gtcaccaaaa gaggtctcaa
1741 tgtggaccag ctgaacatgt tgggagagaa gcttcttggt cctaacgcca gccccgatgg
1801 tctcattccg tggacgaggt tttgtaagga aaatataaat gataaaaatt ttcccttctg
1861 gctttggatt gaaagcatcc tagaactcat taaaaaacac ctgctccctc tctggaatga
1921 tgggtgcatc atgggcttca tcagcaagga gcgagagcgt gccctgttga aggaccagca
1981 gccggggacc ttcctgctgc ggttcagtga gagctcccgg gaaggggcca tcacattcac
2041 atgggtggag cggtcccaga acggaggcga acctgacttc catgcggttg aaccctacac
2101 gaagaaagaa ctttctgctg ttactttccc tgacatcatt cgcaattaca aagtcatggc
2161 tgctgagaat attcctgaga atcccctgaa gtatctgtat ccaaatattg acaaagacca
2221 tgcctttgga aagtattact ccaggccaaa ggaagcacca gagccaatgg aacttgatgg
2281 ccctaaagga actggatata tcaagactga gttgatttct gtgtctgaag ttcacccttc
2341 tagacttcag accacagaca acctgctccc catgtctcct gaggagtttg acgaggtgtc
2401 tcggatagtg ggctctgtag aattcgacag tatgatgaac acagtataga gcatgaattt
2461 ttttcatctt ctctggcgac agttttcctt ctcatctgtg attccctcct gctactctgt
2521 teetteacat cetgtgttte tagggaaatg aaagaaagge cagcaaatte getgeaacet
2581 gttgatagca agtgaatttt tctctaactc agaaacatca gttactctga agggcatcat
2641 gcatcttact gaaggtaaaa ttgaaaggca ttctctgaag agtgggtttc acaagtgaaa
2701 aacatccaga tacacccaaa gtatcaggac gagaatgagg gtcctttggg aaaggagaag
2761 ttaagcaaca tctagcaaat gttatgcata aagtcagtgc ccaactgtta taggttgttg
2821 gataaatcag tggttattta gggaactgct tgacgtagga acggtaaatt tctqtqqqaq
2881 aattettaca tgttttettt getttaagtg taactggeag ttttecattg gtttacetgt
2941 gaaatagttc aaagccaagt ttatatacaa ttatatcagt cctctttcaa aggtagccat
3001 catggatctg gtagggggaa aatgtgtatt ttattacatc tttcacattg gctatttaaa
3061 gacaaagaca aattotgttt ottgagaaga gaatattago tttactgttt gttatggott
3121 aatgacacta gctaatatca atagaaggat gtacatttcc aaattcacaa gttgtgtttg
3181 atatccaaag ctgaatacat tctgctttca tcttggtcac atacaattat ttttacagtt
3241 ctcccaaggg agttaggcta ttcacaacca ctcattcaaa agttgaaatt aaccatagat
3301 gtagataaac tcagaaattt aattcatgtt tcttaaatgg gctactttgt cctttttgtt
3361 attagggtgg tatttagtct attagccaca aaattgggaa aggagtagaa aaagcagtaa
3421 ctgacaactt gaataataca ccagagataa tatgagaatc agatcatttc aaaactcatt
3481 tcctatgtaa ctgcattgag aactgcatat gtttcgctga tatatgtgtt tttcacattt
3541 gcgaatggtt ccattctctc tcctgtactt tttccagaca cttttttgag tggatgatgt
3601 ttcgtgaagt atactgtatt tttacctttt tccttcctta tcactgacac aaaaagtaga
3661 ttaagagatg ggtttgacaa ggttcttccc ttttacatac tgctgtctat gtggctgtat
3721 cttgtttttc cactactgct accacaacta tattatcatg caaatgctgt attcttcttt
3781 ggtggagata aagatttett gagttttgtt ttaaaattaa agetaaagta tetgtattge
3841 attaaatata atatcgacac agtgctttcc gtggcactgc atacaatctg aggcctcctc
3901 teteagtttt tatatagatg gegagaacet aagttteagt tgattttaca attgaaatga
3961 ctaaaaaaca aagaagacaa cattaaaaac aatattgttt cta
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## (2) INFORMATION FOR SEQ ID NO:2620:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2607 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2620
- 1 attaaacctc tcgccgagcc cctccgcaga ctctgcgccg gaaagtttca tttgctgtat 61 gccatcctcg agagctgtct aggttaacgt tcgcactctg tgtatataac ctcgacagtc

121 ttggcaccta acgtgctgtg cgtagctgct cctttggttg aatccccagg cccttgttgg 181 ggcacaaggt ggcaggatgt ctcagtggta cgaacttcag cagcttgact caaaattcct 241 ggagcaggtt caccagcttt atgatgacag ttttcccatg gaaatcagac agtacctggc 301 acagtggtta gaaaagcaag actgggagca cgctgccaat gatgtttcat ttgccaccat 361 ccgttttcat gacctcctgt cacagctgga tgatcaatat agtcgctttt ctttggagaa 421 taacttcttg ctacagcata acataaggaa aagcaagcgt aatcttcagg ataattttca 481 ggaagaccca atccagatgt ctatgatcat ttacagctgt ctgaaggaag aaaggaaaat 541 tctggaaaac gcccagagat ttaatcaggc tcagtcgggg aatattcaga gcacagtgat 601 gttagacaaa cagaaagagc ttgacagtaa agtcagaaat gtgaaggaca aggttatgtg 661 tatagagcat gaaatcaaga gcctggaaga tttacaagat gaatatgact tcaaatgcaa 721 aaccttgcag aacagagaac acgagaccaa tggtgtggca aagagtgatc agaaacaaga 781 acagctgtta ctcaagaaga tgtatttaat gcttgacaat aagagaaagg aagtagttca 841 caaaataata gagttgctga atgtcactga acttacccag aatgccctga ttaatgatga 901 actagtggag tggaagcgga gacagcagag cgcctgtatt ggggggccgc ccaatgcttg 961 cttggatcag ctgcagaact ggttcactat agttgcggag agtctgcagc aagttcggca 1021 gcagettaaa aagttggagg aattggaaca gaaatacace tacgaacatg accetateac 1081 aaaaaacaaa caagtgttat gggaccgcac cttcagtctt ttccagcagc tcattcagag 1141 ctcgtttgtg gtggaaagac agccctgcat gccaacgcac cctcagaggc cgctggtctt 1201 gaagacaggg gtccagttca ctgtgaagtt gagactgttg gtgaaattgc aagagctgaa 1261 ttataatttg aaagtcaaag tcttatttga taaagatgtg aatgagagaa atacagtaaa 1321 aggatttagg aagttcaaca ttttgggcac gcacacaaaa gtgatgaaca tggaggagtc 1381 caccaatggc agtctggcgg ctgaatttcg gcacctgcaa ttgaaagaac agaaaaatgc 1441 tggcaccaga acgaatgagg gtcctctcat cgttactgaa gagcttcact cccttagttt 1501 tgaaacccaa ttgtgccagc ctggtttggt aattgacctc gagacgacct ctctgcccgt 1561 tgtggtgatc tccaacgtca gccagctccc gagcggttgg gcctccatcc tttggtacaa 1621 catgctggtg gcggaaccca ggaatctgtc cttcttcctg actccaccat gtgcacgatg 1681 ggctcagctt tcagaagtgc tgagttggca gttttcttct gtcaccaaaa gaggtctcaa 1741 tgtggaccag ctgaacatgt tgggagagaa gcttcttggt cctaacgcca gccccgatgg 1801 tctcattccg tggacgaggt tttgtaagga aaatataaat gataaaaatt ttcccttctg 1861 gctttggatt gaaagcatcc tagaactcat taaaaaacac ctgctccctc tctggaatga 1921 tgggtgcatc atgggcttca tcagcaagga gcgagagcgt gccctgttga aggaccagca 1981 gccggggacc ttcctgctgc ggttcagtga gagctcccgg gaaggggcca tcacattcac 2041 atgggtggag cggtcccaga acggaggcga acctgacttc catgcggttg aaccctacac 2101 gaagaaagaa ctttctgctg ttactttccc tgacatcatt cgcaattaca aagtcatggc 2161 tgctgagaat attcctgaga atcccctgaa gtatctgtat ccaaatattg acaaagacca 2221 tgcctttgga aagtattact ccaggccaaa ggaagcacca gagccaatgg aacttgatgg 2281 ccctaaagga actggatata tcaagactga gttgatttct gtgtctgaag tgtaagtgaa 2341 cacagaagag tgacatgttt acaaacctca agccagcctt gctcctggct ggggcctgtt 2401 gaagatgett gtattttact tttccattgt aattgetate gecateaeag etgaacttgt 2461 tgagatcccc gtgttactgc ctatcagcat tttactactt taaaaaaaaa aaaaaaagcc 2521 aaaaaccaaa tttgtattta aggtatataa attttcccaa aactgatacc ctttgaaaaa 2581 gtataaataa aatgagcaaa agttgaa

## (2) INFORMATION FOR SEQ ID NO:2621:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 97 base pairs
  - (B) TYPE: nucleic acid
  - (B) TIPE: NUCLEIC acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2621
- 1 ttactaagat gattattgtt ttatagcaat tgaaagaaca gaaaaatgct ggcaccagaa
- 61 cgaatgaggt gagagtggtt tatgttgtga atgggcc

# (2) INFORMATION FOR SEQ ID NO:2622:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 199 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2622
- 1 acgacetete tgcccgttgt ggtgatetee aacgteagee ageteeegag eggttgggee
- 61 tccatccttt ggtacaacat gctggtggtg gcggaaccca gggtatggaa aacacatttg
- 121 ctttggtccc agggtttaag cagagacccc acgctctcgc tgctgcatct cgctgctgca

#### 181 tctctgaaat agccccaat

- (2) INFORMATION FOR SEQ ID NO: 2623:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 100 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2623
  - 1 ggtctcaatg tggaccagct gaacatgttg ggagagaagc ttcttggtat atgcatatta
  - 61 acttgttatg tttataaaaa ttgaaattca taaaaatatc
- (2) INFORMATION FOR SEQ ID NO: 2624:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 150 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2624
  - 1 ctgatcagta gaaaacatgt ttacatcttt gtttgtagtg tatagagcat gaaatcaaga
  - 61 gcctggaaga tttacaagat gaatatgact tcaaatgcaa aaccttgcag aacagaggta
  - 121 agggttcaca actgaagtgg tgcccgttgg
- (2) INFORMATION FOR SEQ ID NO:2625:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 7156 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2625
  - 1 attaaacctc tcgccgagcc cctccgcaga ctctgcgccg gaaagtttca tttgctgtat
  - 61 gccatcctcg agagctgtct aggttaacgt tcgcactctg tgtatataac ctcgacagtc
  - 121 ttggcaccta acgtgctgtg cgtagctgct cctttggttg aatccccagg cccttgttgg
  - 181 ggcacaaggt ggcaggatgt ctcagtggta cgaacttcag cagcttgact caaaattcct
  - 241 ggagcaggtt caccagcttt atgatgacag ttttcccatg gaaatcagac agtacctggc
  - 301 acagtggtta gaaaagcaag actgggagca cgctgccaat gatgtttcat ttgccaccat
  - 361 ccgttttcat gacctcctgt cacagctgga tgatcaatat agtcgctttt ctttggagaa
  - 421 taacttottg otacagoata acataaggaa aagcaagogt aatottoagg ataattttoa 481 ggaagacoca atooagatgt otatgatoat ttacagotgt otgaaggaag aaaggaaaat
  - 541 tctggaaaac gcccagagat ttaatcaggc tcagtcgggg aatattcaga gcacagtgat
  - 601 gttagacaaa cagaaagagc ttgacagtaa agtcagaaat gtgaaggaca aggttatgtg
  - 661 tatagagcat gaaatcaaga gcctggaaga tttacaagat gaatatgact tcaaatgcaa
  - 721 aaccttgcag aacagagaac acgagaccaa tggtgtggca aagagtgatc agaaacaaga
  - 781 acagetgtta etcaagaaga tgtatttaat gettgacaat aagagaaagg aagtagttea
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- (2) INFORMATION FOR SEQ ID NO:2626:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 18648 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2626

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		cgtctctacg				
		tactctggag				
		agctgtgatc				
		tcccagaaaa				
	_	aaccctcgga				
		ctaagtggca				
		ggggagcagg				
		actgtgctcc				
		gaagaccatg				
		ctgctcctgg				
		tctcctttct				
		ctgaatgctc				
		ctcttccctc				
		tgtgcaaccg				
		ttaccagttg				
		aatcccccgg				
		tacttcattg aagcatggga				
		tactatgggg				
		ctggcccact				
		gaggaaatac				
		cattcatcct				
		ccttctcctg				
		cctctccttt				
		tcctagcccc				
		ccatccttag				
		aaggggtacc				
		tgtcgcccag				
		gctcaagcaa				
		agatggggtc				
15301	tcaagcaatc	cacccacctt	ggcctcccaa	aagtcaggga	ttacaggcgt	gcgaccacac
		tatattttt				
15421	ttatccaggc	tggagttgca	gtggataata	tgactacgag	ccttgaccta	ggggttgaag
		gcctcagcca				
		gctaattttt				
15601	ggctggtctt	gaactcctgg	cctcaagcag	tctcctgcct	tggcctccca	aattgccggg
15661	attgtaggaa	tgagccatgg	cacttggctg	ggggatagaa	tttttttt	tttttttt
		ttgagacagt				
		gcaacctctg				
		ttacaggcga			-	
		gccctgttgc				
		ccaggctcaa				
		accaccacac				
		ggctggtctc				
		attacaggcg				
		tcaccatgtt				
		ctcccaaagt				
		ggcactaggc				
16381	aaatagtcct	gtgaagtaaa	cactgttact	gttttcagct	aaggaactgg	atttagagta

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16441 gtcaagtttt gtacctaagg tacgtggcta atgatacagg tctgttagat tccgtagccc
16501 tgattttaac caccctactg cctctcaaga attactaggt attgttctca tttatagatg
16561 ataaatctga ggctcagaaa agttaggcca cttgcctaag gtcccccagc caggattcaa
16621 actccaggag gcctgattcc aaacccatgc tctttagccc tccgccctac tgccttctta
16681 gactagette tgettattet accatteetg attteatttg aaccaetgag eeetgeeeet
16741 ttgtctgtct ttgggtatcc aggcaggtgg atgaactgca acaaccgctg gagcttaagc
16801 cagagecaga getggagtea ttagagetgg aactaggget ggtgecagag ecagagetea
16861 gcctggactt agagccactg ctgaaggcag ggctggatct ggggccagag ctagagtctg
16921 tgctggagtc cactctggag cctgtgatag agcccacact atgcatggta tcacaaacag
16981 tgccagagcc agaccaagga cctgtatcac agccagtgcc agagccagat ttgccctgtg
17041 atctgagaca tttgaacact gagccaatgg aaagtaagtg atgagatgga gtggcacaca
17101 ttccctttcc tacctcttct ccctctccca ttacagaaaa agctgaactc caagctcctc
17161 attggagaga ggtccatctg tgattccttt ttttaggaat tacacatgcc ttcccccacc
17221 tecetgetet tteateceae aagtteeeae teaggetett eeeaggeett teetgeeate
17281 ctccctccct tgggctgctg ggttgggaac tcctaactaa gatcggggcc tcacttttct
17341 ctctggatta cctagtcttc agaaactgtg taaagattga agaaatcatg ccgaatggtg
17401 acceactgtt ggctggccag aacaccgtgg atgaggttta cgtctcccgc cccagccact
17461 tctacactga tggacccttg atgccttctg acttctagga accacatttc ctctgttctt
17521 ttcatatctc tttgcccttc ctactcctca tagcatgata ttgttctcca aggatgggaa
17581 tcaggcatgt gtcccttcca agctgtgtta actgttcaaa ctcaggcctg tgtgactcca
17641 ttggggtgag aggtgaaagc ataacatggg tacagagggg acaacaatga atcagaacag
17761 gggtcctggg ggcaggccag ggcagttgac aggtacttgg agggctcagg gcagtggctt
17821 ctttccagta tggaaggatt tcaacatttt aatagttggt taggctaaac tggtgcatac
17881 tggcattggc cttggtgggg agcacagaca caggatagga ctccatttct ttcttccatt
17941 ccttcatgtc taggataact tgctttcttc tttcctttac tcctggctca agccctgaat
18001 ttcttctttt cctgcagggg ttgagagctt tctgccttag cctaccatgt gaaactctac
18061 cctgaagaaa gggatggata ggaagtagac ctcttttct taccagtctc ctcccctact
18121 ctgccccta agctggctgt acctgttcct cccccataaa atgatcctgc caatctaatg
18181 tgagtgtgaa gtttgcacac tagtttatgc tacctagtct ccactttctc aatgcttagg
18241 agacagatca ctcctggagg ctggggatgg taggattgct ggggattttt tttttttaa
18301 agagggtctc actctgttgc ccaggctaga gtgcaatggt gcaatcacag ctcactgcag
18361 cctcaacctc ctgggttcaa gcaatcctcc tacctcagcc tcctgggtag ctagcaccat
18421 ggcatcgcca ccatgcccta ttttttttt ttaaagacag ggtcttgcta tattgcccag
18481 gctggtcttg aactgggctc aagtgatcct cacgccttgc ctcccaaagt gctgggatta
18541 taggcatgag ccactgtgct tggccaggat ttttttttt tttttttga gatggagttt
18601 ctctcttgtt gtccaggctg gagtgcaatg gtgtgatccg gggaattc
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- (2) INFORMATION FOR SEQ ID NO:2627:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2787 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2627
- 1 cagctggaat tcggggcggc ggcgcagact gggagggga gccgggggtt ccgacgtcgc 61 agccgaggga acaagcccca accggatcct ggacaggcac cccggcttgg cgctgtctct 121 ccccctcggc tcggagaggc ccttcggcct gagggagcct cgccgcccgt ccccggcaca 181 cgcgcagccc cggcctctcg gcctctgccg gagaaacagg atggcccaat ggaatcagct 241 acagcagett gacacaggt acctggagca getecateag etetacagtg acagetteec 301 aatggagctg cggcagtttc tggccccttg gattgagagt caagattggg catatgcggc 361 cagcaaagaa tcacatgcca ctttggtgtt tcataatctc ctgggagaga ttgaccagca 421 gtatagccgc ttcctgcaag agtcgaatgt tctctatcag cacaatctac gaagaatcaa 481 gcagtttctt cagagcaggt atcttgagaa gccaatggag attgcccgga ttgtggcccg 541 gtgcctgtgg gaagaatcac gccttctaca gactgcagcc actgcggccc agcaaggggg 601 ccaggccaac caccccacag cagccgtggt gacggagaag cagcagatgc tggagcagca 661 ccttcaggat gtccggaaga gagtgcagga tctagaacag aaaatgaaag tggtagagaa 721 tctccaggat gactttgatt tcaactataa aaccctcaag agtcaaggag acatgcaaga 781 tctgaatgga aacaaccagt cagtgaccag gcagaagatg cagcagctgg aacagatgct 841 cactgcgctg gaccagatgc ggagaagcat cgtgagtgag ctggcggggc ttttgtcagc 901 gatggagtac gtgcagaaaa ctctcacgga cgaggagctg gctgactgga agaggcggca 961 acagattgcc tgcattggag gcccgcccaa catctgccta gatcggctag aaaactggat



1021 aacgtcatta gcagaatctc aacttcagac ccgtcaacaa attaagaaac tggaggagtt 1081 gcaccaaaaa gtttcctaca aaggggaccc cattgtacag caccggccga tgctggagga 1141 gaggatcgtg gagctgttca gaaacttaat gaaaagtgcc tttgtggtgg agcggcagcc 1201 ctgcatgccc atgcatcctg accggcccct cgtcatcaag accggcgtcc agttcactac 1261 taaagtcagg ttgctggtca agttccctga gttgaattat cagcttaaaa ttaaagtgtg 1321 cattgacaaa gactctgggg acgttgcagc tctcagagga tcccggaaat ttaacattct 1381 gggcacaaac acaaaagtga tgaacatgga agaatccaac aacggcagcc tctctgcaga 1441 attcaaacac ttgaccctga gggagcagag atgtgggaat gggggccgag ccaattgtga 1501 tgcttccctg attgtgactg aggagctgca cctgatcacc tttgagaccg aggtgtatca 1561 ccaaggtctc aagattgacc tagagaccca ctccttgtca gttgtggtga tctccaacat 1621 ctgtcagatg ccaaatgcct gggcgtccat cctgtggtac aacatgctga ccaacaatcc 1681 caagaatgtg aacttettea etaageegee aattggaace tgggaceaag tggeegaggt 1741 gctcagctgg cagttctcgt ccaccaccaa gcgggggctg agcatcgagc agctgacaac 1801 gctggctgag aagctcctag ggcctggtgt gaactactca gggtgtcaga tcacatgggc 1861 taacttctgc aaagaaaaca tggctggcaa gggcttctcc tactgggtct ggctagacaa 1921 tatcatcgac cttgtgaaaa agtatatctt ggccctttgg aatgaagggt acatcatggg 1981 tttcatcagc aaggagcggg agcgggccat cttgagcact aagcccccag gcaccttcct 2041 gctgcgcttc agtgaaagca gcaaagaagg aggcgtcact ttcacttggg tggagaagga 2101 catcagcggt aagacccaga tccagtccgt ggaaccatac acaaagcagc agctgaacaa 2161 catgtcattt gctgaaatca tcatgggcta taagatcatg gatgctacca atatcctgtt 2221 gtctccactt gtctatctct atcctgacat tcccaaggag gaggcattcg ggaagtattg 2281 tcggccagag agccaggagc atcctgaagc tgacccaggt agcgctgccc catacctgaa 2341 gaccaagttt atctgtgtga caccaacgac ctgcagcaat accattgacc tgccgatgtc 2401 cccccgcgct ttagattcat tgatgcagtt tggaaataat ggtgaaggtg ctgaaccctc 2461 agcaggaggg cagtttgagt ccctcacctt tgacatggag ttgacctcgg agtgcgctac 2521 ctcccccatg tgaggagctg agaacggaag ctgcagaaag atacgactga ggcgcctacc 2581 tgcattctgc cacccctcac acagccaaac cccagatcat ctgaaactac taactttgtg 2641 gttccagatt ttttttaatc tcctacttct gctatctttg agcaatctgg gcacttttaa 2701 aaatagagaa atgagtgaat gtgggtgatc tgcttttatc taaatgcaaa taaggatgtg 2761 ttctctgaga cccatgatca ggggatg

## (2) INFORMATION FOR SEQ ID NO:2628:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 219 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2628
- 1 cgacagcgac cagatcaagg aggaactgcc ggagcccttt gagcatcttc tgcagagaat
- 61 cgcccggaga cccaagcctc agcagttctt tggattaatg ggcaaacggg atgctggaca 121 tggccagatc tctcacaaaa gacataaaac agattccttt gttggactaa tgggcaaaag
- 181 agctttaaat tctgtggctt atgaaaggag tgcaatgca

#### (2) INFORMATION FOR SEQ ID NO: 2629:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1021 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2629
- 1 gagagtgcgg agcgaccacg tgcgctcgga ggaaccagag aaactcagca ccccgcggga 61 ctgtccgtcg caaaatccaa catgaaaatc ctcgtggcct tggcagtctt ttttcttgtc 121 tccactcagc tgtttgcaga agaaatagga gccaatgatg atctgaatta ctggtccgac 181 tggtacgaca gcgaccagat caaggaggaa ctgccggagc cctttgagca tcttctgcag 241 agaatcgccc ggagacccaa gcctcagcag ttctttggat taatgggcaa acgggatgct 301 gattcctcaa ttgaaaaaca agtggccctg ttaaaggctc tttatggaca tggccagatc 361 tctcacaaaa gacataaaac agattccttt gttggactaa tgggcaaaag agctttaaat 421 tctgtggctt atgaaaggag tgcaatgcag aattatgaaa gaagacgtta ataaactacc 481 taacattatt tattcagctt catttgtgtc aatgggcaat gacaggtaaa ttaagacatg
- 541 cactatgagg aataattatt tatttaataa caattgttta gggttgaaaa ttcaaaaagt
- 601 gtttattttt catattgtgc caatatgtat tgtaaacatg tgttttaatt ccaatatgat 661 gactccctta aaatagaaat aagtggttat ttctcaacaa agcacagtgt taaatgaaat
- 721 tgtaaaacct gtcaatgata cagtccctaa agaaaaaaa tcattgcttt gaagcagttg

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781 tgtcagctac tgcggaaaag gaaggaaact cctgacagtc ttgtgctttt cctatttgtt
  841 ttcatggtga aaatgtactg agattttggt attacactgt atttgtatct ctgaagcatg
  901 tttcatgttt tgtgactata tagagatgtt tttaaaagtt tcaatgtgat tctaatgtct
  961 tcatttcatt gtatgatgtg ttgtgatagc taacatttta aataaaagaa aaaatatctt
 1021 a
(2) INFORMATION FOR SEQ ID NO:2630:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1102 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2630
   1 gcgccgcaag gcactgagca ggcgaaagag cgcgctcgga cctccttccc ggcggcagct
   61 accgagagtg cggagcgacc agcgtgcgct cggaggaacc agagaaactc agcaccccgc
 121 gggactgtcc gtcgcaaaat ccaacatgaa aatcctcgtg gccttggcag tctttttct
 181 tgtctccact cagctgtttg cagaagaaat aggagccaat gatgatctga attactggtc
 241 cgactggtac gacagcgacc agatcaagga ggaactgccg gagccctttg agcatcttct
 301 gcagagaatc gcccggagac ccaagcctca gcagttcttt ggattaatgg gcaaacggga
 361 tgctgattcc tcaattgaaa aacaagtggc cctgttaaag gctctttatg gacatggcca
 421 gatctctcac aaaagacata aaacagattc ctttgttgga ctaatgggca aaagagcttt
 481 aaattctgtg gcttatgaaa ggagtgcaat gcagaattat gaaagaagac gttaataaac
 541 tacctaacat tatttattca gcttcatttg tgtcaatggg caatgacagg taaattaaga
 601 catgcactat gaggaataat tatttattta ataacaattg tttggggttg aaaattcaaa
 661 aagtgtttat ttttcatatt gtgccaatat gtattgtaaa catgtgtttt aattccaata
 721 tgatgactcc cttaaaatag aaataagtgg ttatttctca acaaagcaca gtgttaaatg
 781 aaattgtaaa acctgtcaat gatacagtcc ctaaagaaaa aaaatcattg ctttgaagca
 841 gttgtgtcag ctactgcgga aaaggaagga aactcctgac agtcttgtgc ttttcctatt
 901 tgttttcatg gtgaaaatgt actgagattt tggtattaca ctgtatttgt atctctgaag
 961 catgtttcat gttttgtgac tatatagaga tgtttttaaa agtttcaatg tgattctaat
1021 gtcttcattt cattgtatga tgtgttgtga tagctaacat tttaaataaa agaaaaaata
1081 tcttgaaaaa aaaaaaaaa aa
(2) INFORMATION FOR SEQ ID NO:2631:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2342 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2631
   1 cgacagcgac cagatcaagg aggaactgcc ggagcccttt gagcatcttc tgcagagaat
  61 cgcccggaga cccaagcctc agcagttctt tggattaatg ggcaaacggg atgctggaca
 121 tggccagatc tctcacaaaa gacataaaac agattccttt gttggactaa tgggcaaaag
 181 agctttaaat tctgtggctt atgaaaggag tgcaatgca
   1 gagagtgcgg agcgaccacg tgcgctcgga ggaaccagag aaactcagca ccccgcggga
  61 ctgtccgtcg caaaatccaa catgaaaatc ctcgtggcct tggcagtctt ttttcttgtc
 121 tocactcago tgtttgcaga agaaatagga gccaatgatg atotgaatta otggtoogac
 181 tggtacgaca gcgaccagat caaggaggaa ctgccggagc cctttgagca tcttctgcag
 241 agaatcgccc ggagacccaa gcctcagcag ttctttggat taatgggcaa acgggatgct
 301 gattcctcaa ttgaaaaaca agtggccctg ttaaaggctc tttatggaca tggccagatc
 361 teteacaaaa gacataaaac agatteettt gttggactaa tgggcaaaag agetttaaat
 421 tctgtggctt atgaaaggag tgcaatgcag aattatgaaa gaagacgtta ataaactacc
 481 taacattatt tattcagctt catttgtgtc aatgggcaat gacaggtaaa ttaagacatg
 541 cactatgagg aataattatt tatttaataa caattgttta gggttgaaaa ttcaaaaagt
 601 gtttattttt catattgtgc caatatgtat tgtaaacatg tgttttaatt ccaatatgat
 661 gactccctta aaatagaaat aagtggttat ttctcaacaa agcacagtgt taaatgaaat
 721 tgtaaaacct gtcaatgata cagtccctaa agaaaaaaa tcattgcttt gaagcagttg
 781 tgtcagctac tgcggaaaag gaaggaaact cctgacagtc ttgtgctttt cctatttgtt
 841 ttcatggtga aaatgtactg agattttggt attacactgt atttgtatct ctgaagcatg
 901 tttcatgttt tgtgactata tagagatgtt tttaaaagtt tcaatgtgat tctaatgtct
 961 tcatttcatt gtatgatgtg ttgtgatagc taacatttta aataaaagaa aaaatatctt
1021 g
   1 gcgccgcaag gcactgagca ggcgaaagag cgcgctcgga cctccttccc ggcggcagct
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61 accgagagtg cggagcgacc agcgtgcgct cggaggaacc agagaaactc agcaccccgc

121 gggactgtcc gtcgcaaaat ccaacatgaa aatcctcgtg gccttggcag tcttttttct 181 tgtctccact cagctgtttg cagaagaaat aggagccaat gatgatctga attactggtc 241 cqactqqtac qacaqcqacc aqatcaaqqa qqaactqccq gagccctttg agcatcttct 301 gcaqaqaatc gcccqqaqac ccaaqcctca gcaqttcttt ggattaatgg gcaaacggga 361 tgctgattcc tcaattgaaa aacaagtggc cctgttaaag gctctttatg gacatggcca 421 gatctctcac aaaagacata aaacagattc ctttgttgga ctaatgggca aaagagcttt 481 aaattctqtq qcttatgaaa ggagtqcaat gcagaattat gaaagaagac gttaataaac 541 tacctaacat tatttattca qcttcatttq tgtcaatggg caatgacagg taaattaaga 601 catgcactat gaggaataat tatttattta ataacaattg tttggggttg aaaattcaaa 661 aagtgtttat ttttcatatt gtgccaatat gtattgtaaa catgtgtttt aattccaata 721 tgatgactcc cttaaaatag aaataagtgg ttatttctca acaaagcaca gtgttaaatg 781 aaattgtaaa acctgtcaat gatacagtcc ctaaagaaaa aaaatcattg ctttgaagca 841 gttgtgtcag ctactgcgga aaaggaagga aactcctgac agtcttgtgc ttttcctatt 901 tgttttcatg gtgaaaatgt actgagattt tggtattaca ctgtatttgt atctctgaag 961 catgtttcat gttttgtgac tatatagaga tgtttttaaa agtttcaatg tgattctaat 1021 gtcttcattt cattgtatga tgtgttgtga tagctaacat tttaaataaa agaaaaaata 1081 tcttgaaaaa aaaaaaaaaa aa

#### (2) INFORMATION FOR SEQ ID NO:2632:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1674 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2632

1 gaaaaagcct tccaccctcc tgtctggctt tagaaggacc ctgagcccca ggcgccacga 61 caggactctg ctgcagaggg gggttgtgta cagatagtag ggctttaccg cctagcttcg 121 aaatggataa cgtcctcccg gtggactcag acctctcccc aaacatctcc actaacacct 181 cggaacccaa tcagttcgtg caaccagcct ggcaaattgt cctttgggca gctgcctaca 241 cggtcattgt ggtgacctct gtggtgggca acgtggtagt gatgtggatc atcttagccc 301 acaaaagaat gaggacagtg acgaactatt ttctggtgaa cctggccttc gcggaggcct 361 ccatggctgc attcaataca gtggtgaact tcacctatgc tgtccacaac gaatggtact 421 acggcctgtt ctactgcaag ttccacaact tcttccccat cgccgctgtc ttcgccagta 481 tctactccat gacggctgtg gcctttgata ggtacatggc catcatacat cccctccagc 541 cocggetgte agecacagee accaaagtgg teatetgtgt catetgggte etggetetee 601 tgctggcctt cccccagggc tactactcaa ccacagagac catgcccagc agagtcgtgt 661 gcatgatcga atggccagag catccgaaca agatttatga gaaagtgtac cacatctgtg 721 tgactgtgct gatctacttc ctccccctgc tggtgattgg ctatgcatac accgtagtgg 781 gaatcacact atgggccagt gagatccccg gggactcctc tgaccgctac cacgagcaag 841 tctctgccaa gcgcaaggtg gtcaaaatga tgattgtcgt ggtgtgcacc ttcgccatct 901 gctggctgcc cttccacatc ttcttcctcc tgccctacat caacccagat ctctacctga 961 agaagtttat ccagcaggtc tacctggcca tcatgtggct ggccatgagc tccaccatgt 1021 acaaccccat catctactgc tgcctcaatg acaggttccg tctgggcttc aagcatgcct 1081 teeggtgetg eccetteate agegeeggeg actatgaggg getggaaatg aaateeacee 1141 ggtatctcca gacccagggc agtgtgtaca aagtcagccg cctggagacc accatctcca 1201 cagtggtggg ggcccacgag gaggagccag aggacggccc caaggccaca ccctcgtccc 1261 tggacctgac ctccaactgc tcttcacgaa gtgactccaa gaccatgaca gagagcttca 1321 gettetecte caatgtgete teetaggeea cagggeettt ggeaggtgea geececaetg 1381 cctttqacct qcctcccttc atqcatggaa attcccttca tctggaacca tcagaaacac 1441 cctcacactg ggacttgcaa aaagggtcag tatgggttag ggaaaacatt ccatccttga 1501 gtcaaaaaat ctcaattctt ccctatcttt gccaccctca tgctgtgtga ctcaaaccaa 1561 atcactqaac tttqctqaqc ctqtaaaata aaaggtcgga ccagcttttc ccaaaagccc 1621 attcattcca ttctggaagt gactttggct gcatgcgagt gctcatttca ggat

#### (2) INFORMATION FOR SEQ ID NO:2633:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1766 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2633



1 aattcagagc caccgcgggc aggcgggcag tgcatccaga agcgtttata ttctgagcgc 61 cagttcagct ttcaaaaaga gtgctgccca taaaaagcct tccaccctcc tgtctgcttt 121 agaaggaccc tgagccccag gcgccagcca caggactctg ctgcagaggg gggttgtgta 181 cagatagtag gctttacgcc tagcttcgaa atggataacg tcctcccggt ggactcagac 241 ctctcccaa acatctccac taacacctcg gaacccaatc agttcgtgca accagcctgg 301 caaattgtcc tttgggcagc tgcctacacg gtcattgtgg tgacctctgt ggtgggcaac 361 gtggtagtga tgtggatcat cttagcccac aaaagaatga ggacagtgac gaactattt 421 ctggtgaacc tggccttcgc ggaggcctcc atggctgcat tcaatacagt ggtgaacttc 481 acctatgetg tecacaacga atggtaetae ggeetgttet actgeaagtt ceacaactte 541 tttcccatcg ccgctgtctt cgccagtatc tactccatga cggctgtggc ctttgatagg 601 tacatggcca tcatacatcc cctccagccc cggctgtcag ccacagccac caaagtggtc 661 atctgtgtca tctgggtcct ggctctcctg ctggccttcc cccagggcta ctactcaacc 721 acagagacca tgcccagcag agtcgtgtgc atgatcgaat ggccagagca tccgaacaag 781 atttatgaga aagtgtacca catctgtgtg actgtgctga tctacttcct cccctgctg 841 gtgattggct atgcatacac cgtagtggga atcacactat gggccagtga gatccccggg 901 gactectetg accgetacca egageaagte tetgecaage geaaggtggt caaaatgatg 961 attgtcgtgg tgtgcacctt cgccatctgc tggctgccct tccacatctt cttcctcctg 1021 ccctacatca acccagatct ctacctgaag aagtttatcc agcaggtcta cctggccatc 1081 atgtggctgg ccatgagctc caccatgtac aaccccatca tctactgctg cctcaatgac 1141 aggttccgtc tgggcttcaa gcatgccttc cggtgctgcc ccttcatcag cgccggcgac 1201 tatgaggggc tggaaatgaa atccacccgg tatctccaga cccagggcag tgtgtacaaa 1261 gtcagccgcc tggagaccac catctccaca gtggtggggg cccacgagga ggagccagag 1381 gactccaaga ccatgacaga gagcttcagc ttctcctcca atgtgctctc ctaggccaca 1441 gggcctttgg caggtgcagc ccccactgcc tttgacctgc ctcccttcat gcatggaaat 1501 tecetteate tggaaceate agaaacaeee teacaetggg aettgcaaaa agggteagta 1561 tgggttaggg aaaacattcc atccttgagt caaaaaatct caattcttcc ctatctttgc 1621 cacceteatg etgtgtgact caaaccaaat cactgaactt tgetgageet gtaaaataaa 1681 aggtcggacc agcttttcct caagagccca atgcattcca tttctggaag tgactttggc 1741 tgcatgcgag tgctcatttc aggatg

# (2) INFORMATION FOR SEQ ID NO:2634:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1268 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2634
- 1 gaaaaagcct tccaccctcc tgtctggctt tagaaggacc ctgagcccca ggcgccacga 61 caggactctg ctgcagaggg gggttgtgta cagatagtag ggctttaccg cctagcttcg 121 aaatggataa cgtcctcccg gtggactcag acctctcccc aaacatctcc actaacacct 181 cggaacccaa tcagttcgtg caaccagcct ggcaaattgt cctttgggca gctgcctaca 241 cggtcattgt ggtgacctct gtggtgggca acgtggtagt gatgtggatc atcttagccc 301 acaaaagaat gaggacagtg acgaactatt ttctggtgaa cctggccttc gcggaggcct 361 ccatggctgc attcaataca gtggtgaact tcacctatgc tgtccacaac gaatggtact 421 acggcctgtt ctactgcaag ttccacaact tcttccccat cgccgctgtc ttcgccagta 481 totactocat gacggotgtg gootttgata ggtacatggo catcatacat cocotcoago 541 cccggctgtc agccacagcc accaaagtgg tcatctgtgt catctgggtc ctggctctcc 601 tgctggcctt cccccagggc tactactcaa ccacagagac catgcccagc agagtcgtgt 661 gcatgatcga atggccagag catccgaaca agatttatga gaaagtgtac cacatctgtg 721 tgactgtgct gatctacttc ctcccctgc tggtgattgg ctatgcatac accgtagtgg 781 gaatcacact atgggccagt gagatccccg gggactcctc tgaccgctac cacgagcaag 841 tctctgccaa gcgcaaggtg gtcaaaatga tgattgtcgt ggtgtgcacc ttcgccatct 901 gctggctgcc cttccacatc ttcttcctcc tgccctacat caacccagat ctctacctga 961 agaagtttat ccagcaggtc tacctggcca tcatgtggct ggccatgagc tccaccatgt 1021 acaaccccat catctactgc tgcctcaatg acaggtgagg atcccaaccc catgagctct 1081 ccaggggcca caagaccatc tacatacaca gtggccaagc ggcatcctaa atgagtaaac 1141 ccagctgtga gacaagaggg acaagtgggg actgcagcta acttatcatc acacaactca 1201 gcctggctga ttatcaccat ccaggaatgg gagcccggag tagactgatt ttctttttt 1261 cttttcca
- (2) INFORMATION FOR SEQ ID NO:2635:



- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 373 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2635
- 1 atgctgagaa aggtagctgc caaaccttga ctgcaataac aataacaaaa attaaaaacc
- 61 taaaataata agtatatcat actgaccttt cctgtttacc ttgctgtagg taccacatct
- 121 gtgtgactgt gctgatctac ttcctcccc tgctggtgat tggctatgca tacaccgtag
- 181 tgggaatcac actatgggcc agtgagatcc ccggggactc ctctgaccgc taccacgagc 241 aagtetetge caagegeaag gtgageaggg gacaggeaga actaacceae cetggeacag
- 301 acaacagget gtcgagaagg gatggcacac ttgtgageee cagaggcage tagcacaaaa
- 361 tatccccagg tat
- (2) INFORMATION FOR SEQ ID NO:2636:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2472 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2636
  - 1 ggatccaatt tttgcccggc ataagtgtat agtaaatttc ccagccttaa agcacttccc
  - 61 gagagatgct ttgagcgctc gcggtaccag tgcgtaaacg ccgctccccg gctggcgcgg 121 gtgtgcgcca actccaacct gcgcgcaagt ctgccggtgc gcgctccagt cccacagctc
  - 181 cgagtccccg cagtgaaagg agggggcggt gcaccggggt agatgggccc ctgaggactc
  - 241 ccggggttca gttttccgcg gctgccaaga gggccaagtt ggacagtggc agggtcctga

  - 301 agcagatcag caacaaccgc aagtgctcca gccccaggtc ctcagacacg gaggaaaacg
  - 361 acaagaggcg gacacacaac gtcttggaac gtcagaggag gaacgagctg aagcgcagct 421 tttttgccct gcgtgaccag atccctgaat tggaaaacaa cgaaaaggcc cccaaggtag

  - 481 tgatcctcaa aaaagccacc gcctacatcc tgtccattca agcagacgag cacaagctca 541 cctctgaaaa ggacttattg aggaaacgac gagaacagtt gaaacacaaa ctcgaacagc
  - 601 ttcgaaactc tggtgcataa actgacctaa ctcgaggagg agctggaatc tctcgtgaga

  - 661 gtaaggagaa cggttccttc tgacagaact gatgcgctgg aattaaaatg catgctcaaa
  - 721 gcctaacctc acaaccttgg ctggggcttt gggactgtaa gcttagagac tgtcacttcc
  - 781 caggtgaatc agctagccag gtaactgagc tagatatttt gtgggggtgt ttcctaaaca 841 cagectcagg aaagttgttt tegggacace tggaccaggg agtegtegee tetggettet
  - 901 cggtagctgg agcgcggccc ggagcgcggc gctggcacat cgcccccaca catgaccgtt
- 961 teccattgee acaggeaage egectetgea gagetgtete agggetetgg getteattee
- 1021 ctggaagttg attgtcctcc actccagctg tttcccaaat ccttccttcc tcccagcacc
- 1081 cctcgtgcaa cgacgattcc agctgcggac cgcatctgtg tcagttactt ccaagccacc
- 1141 tactgccccc tcgcggagtg cgtggggctc ccggctcgca gactcccacg gcaagtagca 1201 agcagcaaaa ggcgtggtag ctgcggcggt ggaatgagac agttgtcaac agctggcgca
- 1261 cgtgccgccg tgcgcaccgg gactggcgag tacgcagccc aggtactgcc ccttcccagt
- 1321 gacgtetetg cagggggtta taaaageete gtgegeaget aactegegag etgageaace
- 1381 cgaaccgaga ggtgcccgcg aaactgcagg cggcggcagc ggcagcaaaa gagaaggaaa
- 1441 aatctccagc tggatacgaa gctccagaat cctggccata ggctcagaac ttttacaggt
- 1501 cgcgctgcaa tgggccccca cttcgctcct aagtcctcac gcagcacagg gctttgcctt
- 1561 tccctgcgga ggaaggagaa ataggagttg caggcagcag caggtgcata aatgcggggg
- 1621 atctcttgct tcctagaact gtgaccggtg gaatttcttt ccctttttca gtttaccgca
- 1681 agagagatgc tgtctccaga cttctgaact caaacgtctc ctgaagcttg aaagtggagg
- 1741 aattcagagc caccgcgggc aggcgggcag tgcatccaga agcgtttata ttctgagcgc
- 1801 cagttcagct ttcaaaaaga gtgctgccca gaaaaagcct tccaccctcc tgtctggctt
- 1861 tagaaggacc ctgagcccca ggcgccagcc acaggactct gctgcagagg ggggttgtgt
- 1921 acagatagta gggctttacc gcctagcttc gaaatggata acgtcctccc ggtggactca 1981 gacctetece caaacatete cactaacace teggaaceca ateagttegt geaaceagee
- 2041 tggcaaattg tcctttgggc agctgcctac acggtcattg tggtgacctc tgtggtgggc
- 2101 aacgtggtag tgatgtggat catcttagcc cacaaaagaa tgaggacagt gacgaactat
- 2161 tttctggtga acctggcctt cgcggaggcc tccatggctg cattcaatac agtggtgaac 2221 ttcacctatg ctgtccacaa cgaatggtac tacggcctgt tctactgcaa gttccacaac
- 2281 ttcttcccca tcgccgctgt cttcgccagt atctactcca tgacggctgt ggcctttgat
- 2341 aggtgagatt agcctttgtg aaaaggcgag aaagtgctca tagaggacca tggcattgct 2401 gtgaggtttg gaactgggtg gggtatgggt caagtggaag attggccact ctgagggttt
- 2461 ttttactgat ca



(2) INFORMATION FOR SEQ ID NO:2637: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 594 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2637 1 agaatatgga aaaggaattg gaaaataatt gtacaaatca tcaggaatca aagggtttct 61 atgaattttc ttattggcag gaaaaatatg gaatctctga tacagatttt ggtgaccaga 121 tcagaacttt gttctttctt ctctgttcca ggtacatggc catcatacat cccctccagc 181 cccggctgtc agccacagcc accaaagtgg tcatctgtgt catctgggtc ctggctctcc 241 tgctggcctt cccccagggc tactactcaa ccacagagac catgcccagc agagtcgtgt 301 gcatgatcga atggccagag catccgaaca agatttatga gaaagtgtga gtagagatga 361 etececatge caaagaaacg atggtgcagg etgeetteet ggeecettet tgetettet 421 ttctttccat attcttttgt tggtacagat ttaatgtgta tctgcaagca tttctcacat 481 atacceteat ateaggttga tatgteeaca gttgteaggg gaetatagta teceaaatae 541 tattctgagc attgaaagat aatttttgaa gtgtaagatc tagatcctgt tata (2) INFORMATION FOR SEQ ID NO:2638: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2638 1 gagggggatg tgctggtggt ctcacctgtc tcaccctctt gccaggtggt caaaatgatg 61 attgtcgtgg tgtgcacctt cgccatctgc tggctgccct tccacatctt cttcctcctg 121 ccctacatca acccagatct ctacctgaag aagtttatcc agcaggtcta cctggccatc 181 atgtggctgg ccatgagete caccatgtae aaccecatea tetactgetg ceteaatgae 241 aggtgaggat cccaacccca tgagctctcc aggggccaca agaccatcta catacacagt 301 ggccaagcgg catctaaatg agtaaaccca gctgtgagac aagagggaca agtggggact 361 gcagctaact t (2) INFORMATION FOR SEQ ID NO:2639: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3929 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2639 1 ccgtcccaaa ggtcacctct tcatctgctc gctctccagg ttccgtctgg gcttcaagca 61 tgccttccgg tgctgcccct tcatcagcgc cggcgactat gaggggctgg aaatgaaatc 121 cacceggtat ctccagacce agggcagtgt gtacaaagte agecgcetgg agaccaccat 181 ctccacagtg gtgggggccc acgaggagga gccagaggac ggccccaagg ccacaccctc 241 gtccctggac ctgacctcca actgctcttc acgaagtgac tccaagacca tgacagagag 301 cttcagcttc tcctccaatg tgctctccta ggccacaggg cctttggcag gtgcagcccc 361 cactgeettt gacetgeete eetteatgea tggaaattee etteatetgg aaceateaga 421 aacaccctca cactgggact tgcaaaaagg gtcagtatgg gttagggaaa acattccatc 481 cttgagtcaa aaaatctcaa ttcttcccta tctttgccac cctcatgctg tgtgactcaa 541 accaaatcac tgaactttgc tgagcctgta aaataaaagg tcggaccagc ttttcccaaa 601 agcccattca ttccattctg gaagtgactt tggctgcatg cgagtgctca tttcaggatg 661 aattctgcag cacagctgcg gacccggaag actcattttc ctggagcccc gtgttacttc 721 aataaagtta totoagatta gootootgoa gotggaggot cotatoacco cagootacgo 781 ttgacagggt gaacaaaaga aggcaccaca taacatctaa atgaaaaatt tagccctgtc

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1321 agtacattcc ttctcatgga aggttttggc ttttgacaga gcagaggact tcatgccaag
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3781 gaatggccag gcctgatgcc ctgccgtgct cagccgctgg ctggggctct ctagggaaag
3841 tgttctgtgt ttgaacacca tggtggatgc tgaagccctg cagctggagg ctgtcagcca
3901 agtgccctgc agttcttcct aaagaggga
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- (2) INFORMATION FOR SEQ ID NO:2640:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 12447 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2640
- 1 gaaaaagcct tccacctcc tgtctggctt tagaaggacc ctgagccca ggcgccacga
  61 caggactctg ctgcagaggg gggttgtgta cagatagtag ggctttaccg cctagcttcg
  121 aaatggataa cgtcctcccg gtggactcag acctctcccc aaacatctcc actaacacct
  181 cggaacccaa tcagttcgtg caaccagcct ggcaaattgt cctttgggca gctgcctaca
  241 cggtcattgt ggtgacctct gtggtgggca acgtggtagt gatgtggatc atcttagccc
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  361 ccatggctgc attcaataca gtggtgaact tcacctatgc tgtccacaac gaatggtact
  421 acggcctgtt ctactgcaag ttccacaact tcttccccat cgccgctgtc ttcgccagta
  481 tctactccat gacggctgtg gcctttgata ggtacatggc catcatacat cccctccagc
  541 cccggctgtc agccacagcc accaaagtgg tcatctgtgt catctgggtc ctggctctc

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  661 gcatgatcga atggccagag catccgaaca agatttatga gaaagtgtac cacatctgtg
  721 tgactgtgct gatctacttc ctccccctgc tggtgattgg ctatgcatac accgtagtgg
  781 gaatcacact atgggccagt gagatccccg gggactcctc tgaccgctac cacgagcaag
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1561 atcactgaac tttgctgagc ctgtaaaata aaaggtcgga ccagcttttc ccaaaagccc
1621 attcattcca ttctggaagt gactttggct gcatgcgagt gctcatttca ggat
     1 aattcagage cacegeggge aggegggeag tgeatecaga agegtttata ttetgagege
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 541 tttcccatcg ccgctgtctt cgccagtatc tactccatga cggctgtggc ctttgatagg
 601 tacatggcca tcatacatcc cctccagccc cggctgtcag ccacagccac caaagtggtc
 661 atctgtgtca tctgggtcct ggctctcctg ctggccttcc cccagggcta ctactcaacc
 721 acagagacca tgcccagcag agtcgtgtgc atgatcgaat ggccagagca tccgaacaag
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 841 gtgattggct atgcatacac cgtagtggga atcacactat gggccagtga gatccccggg
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 961 attgtcgtgg tgtgcacctt cgccatctgc tggctgccct tccacatctt cttcctcctg
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- (2) INFORMATION FOR SEQ ID NO:2641:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 5441 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2641

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2281 tgggcccagg cgtggggctg cttcctggtc ctgacctggc acctgcccca qccccaqtcc 2341 aggccctgca gcaagcgggt atcgtcgggg gtcaggaggc ccccaggagc aagtggccct 2401 ggcaggtgag cctgagagtc cgcgaccgat actggatgca cttctgtggg ggctccctca 2461 tecaececca gtgggtgetg accgeggege actgeetggg accgtgagte teceagggee 2521 tggagggtg ggcaagggct ggatgtgagc cctggetccc gggtgctcct gggggctgcc 2581 cagggccctg agtgggatcc tccgctgccc agggacgtca aggatctggc caccctcagg 2641 gtgcaactgc gggagcagca cctctactac caggaccagc tgctgccggt cagcaggatc 2701 atcgtgcacc cacagttcta catcatccag actggagcgg atatcgccct gctggagctg 2761 gaggagcccg tgaacatctc cagccgcgtc cacacggtca tgctgccccc tgcctcggag 2821 accttccccc cggggatgcc gtgctgggtc actggctggg gcgatgtgga caatgatggt 2881 gggtctgggg acagtgggag gtggggccag ggtcttagcc acagcccagc ccctgggctc 2941 caggtggggg ttgcccggcc ccctcctcag gctgcaccct cttccccacc tgcagagccc 3001 ctcccaccgc catttcccct gaagcaggtg aaggtcccca taatggaaaa ccacatttgt 3061 gacgcaaaat accaccttgg cgcctacacg ggagacgacg tccgcatcat ccgtgacgac 3121 atgctgtgtg ccgggaacac ccggagggac tcatgccagg tgggccccgc gtgtcccccg 3181 ccccccgcac cccaaccccc actcccaggc ctgttcggcg agcgctgacc tctgaccttc 3241 ccagggcgac tctggagggc ccctggtgtg caaggtgaat ggcacctggc tacaggcggg 3301 cgtggtcagc tgggacgagg gctgtgccca gcccaaccgg cctggcatct acacccgtgt 3361 cacctactac ttggactgga tccaccacta tgtccccaaa aagccgtgag tcaggcctgg 3421 ggtgtccacc tgggtcactg gagagccagc ccctcctgtc caaaacacca ctgcttccta 3481 cccaggtggc gactgccccc cacaccttcc ctgccccgtc ctgagtgccc cttcctgtcc 3541 taageceect getetettet gageceette eeetgteetg aggaceette eeeateetga 3601 geceeettee etgteetaag eetgaegeet geaetgggee eteeggeeet eecetgeeea 3661 ggcagctggt ggtgggcgct aatcctcctg agtgctggac ctcattaaag tgcatggaaa 3721 tcactggtgt gcatcgctgt gtttctggtt gtggatgtca ctgggagaga aggggtccag 3781 gtgtgctgag gacacctgcc acagtgcgag gtcctagccc tcaaggcaca gccagtcacc 3841 gtgggacggg gcctcctggg cagccctggt ccccggggct ggcttctccc cacacgatgc 3901 atccagcatt cgggtcacac agagccactc gggcaactca gttgattata aaggacagcc 3961 aagteeetge aacegggtea agacagagaa tggtegeegg gageeecagg getgeeeate 4021 acgagecect accecacget teccaegage tetteteeeg geceetetgt ceaetgettg 4081 tgctttgccc tagttgtttg ctttgagaca ggatctcgct gtgtcatcca ggctgaagtg 4141 cagtggtgtg atcagggctc actgtagcct tgaactcctg ggctcaagcg atcctcccat 4201 cttggcctcc catatagctg ggccacagga gtgagccacc acgcccagtt aatttttgta 4261 ttttcagtag agatggggtt tcgccatgtt ggccagtctg gtctcgaact cctgacctca 4321 agtgatctgc ccgcctcggc ctcccaaagt gctgggatga caggcgtgag ccaccgcacc 4381 cagcctgagt ttgacatttt caaattcatt ttgaggtctt tctctacatc aatacatgag 4441 ccctccgcgt ccggcgagtg ttgcatttta tcccgggctc ttgtttgcat tttatatttg 4501 aacatgatta cattcaggaa tgaaatgcgg ggctgttctg gttgaaaaca actctctaaa 4561 gaaacattca ctctttcctt ccaactgtca gatgcagaga tgtgcattta gtctctccaa 4621 tctctgcaaa tgacctctgt cctcacaagg ggtggactcg acttccagcg ccctctccag 4681 ccccacgtga cctctgcctc tgcagcccct gaaggcccat ccctcggctc ctgttctgca 4741 ggcccagcgt cttgtctatg aagatggacc tggaactcgg gccctccttc ctccctctgg 4801 cccatcccac cttctaggga tcacagagac agcacggggt gacccccagg gaacactgag 4861 cccctagaag cacttccaca cgcccactgg aggttttgcg gggtgggagt cggagggatg 4921 agaccccgaa gggaagcaag acggcccctc aggacagggc tgccggtgta aggaaaggtg 4981 gacagcaggg gccggtcact gggtggaggg ggagggcagg ctccagcccc agagcttccc 5041 aaattagatc taagatccct gggaagctca gtgaagctca gcgcagtgac actggcagat 5101 gtgagcgtca gcttcagcag gaagggtctc tcaggacgtg acaggcaggc tgctggccag 5161 ggctgcagcc acctgcgttt tgactgggac gggggcacct gatccaaggt cacccacgtg 5221 gctgccggca ggaggccctg gttccccgtc acaagggggt gtgaggggga aggccaagtg 5281 gtggccacan ggttnccacc gagagggaca gtgcccaagt tggccaagcc accctnggac 5341 aagaaacaat nccaagtett necaaggtee ttggacaaca aggagaanee eecceagett 5401 gggggcnatt aaccaagggc cangneceee etteeeggtt e

## (2) INFORMATION FOR SEQ ID NO:2642:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 388 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2642
  - 1 tggacccacc ccggtccccc cgtcccagct tccattcttc accccacaat ctgtagcccc

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61 cagecetgee etgtgaggee eggeeaggee caegatgete eteettgete eccagatget
  121 gaatetgetg etgetggege tgeeegteet ggegageege geetaegegg eeeetggtga
  181 gtcccagccg gggtccaccc tgcccctcac cacattccac aggtcagggc ctgggtgggt
  241 tctggggagg ccgggctggc ccccacacag ggaagggctg ggcccaggcc tggggctgct
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(2) INFORMATION FOR SEO ID NO:2643:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1167 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2643
   1 cagateggag eggacatege eetgetggag etggaggage eggtgaaggt etceageeac
  61 gtccacacgg tcaccctgcc ccctgcctca gagaccttcc ccccggggat gccgtgctgg
 121 gtcactggct ggggcgatgt ggacaatgat ggtgggtctg gggacagtgg aggtggggcc
 181 agggtettag ccacagecca geceetggge teeetetggg etecaggtgg gggttgeeeg
 241 geoeceteet gaggetgeae cetetteece acetgeagag egecteecae egecatttee
 301 tctgaagcag gtgaaggtcc ccataatgga aaaccacatt tgtgacgcaa aataccacct
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 421 cacceggagg gactcatgcc aggtgggccc egegtgtecc eegeceeeg caccecaace
 481 cccactccca ggcctgttcg gcgagcgctg acctctgacc ttcccagggc gactccggag
 541 ggcccctggt gtgcaaggtg aatggcacct ggctgcaggc gggcgtggtc agctggggcg
 601 agggctgtgc ccagcccaac cggcctggca tctacacccg tgtcacctac tacttggact
 661 ggatccacca ctatgtcccc aaaaagccgt gagtcaggcc tgggttggcc acctgggtca
 721 ctggaggacc aacccctgct gtccaaaaca ccactgcttc ctacccaggt ggcgactgcc
 781 ccccacacct tccctgcccc gtcctgagtg ccccttcctg tcctaagccc cctgctctct
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 901 aagcctgacg cctgcactgg gccctccggc cctcccctgc ccaggcagct ggtggtgggc
 961 gctaatcctc ctgagtgctg gacctcatta aagtgcatgg aaatcactgg tgtgcatcgc
1021 tgtgtttctg gttgtggatg tcactgggag agaaggggtc caggtgtgct gaggacacct
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(2) INFORMATION FOR SEQ ID NO: 2644:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1143 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2644
   1 ccaggatgct gaatctgctg ctgctggcgc tgcccgtcct ggcgagccgc gcctacgcgg
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 121 ggagcaagtg gccctggcag gtgagcctga gagtccacgg cccatactgg atgcacttct
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 241 acgtcaagga tctggccgcc ctcagggtgc aactgcggga gcagcacctc tactaccagg
 301 accagetget geoggteage aggateateg tgeacceaea gttetacace geocagateg
 361 gagcggacat cgccctgctg gagctggagg agccggtgaa ggtctccagc cacgtccaca
 421 cggtcaccct gcccctgcc tcagagacct tccccccggg gatgccgtgc tgggtcactg
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403254.1 73999/01905

1141 tca

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(2) INFORMATION FOR SEQ ID NO: 2645:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1145 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEO ID NO: 2645
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   61 ggcccctgcc ccaggccagg ccctgcagcg agtgggcatc gttgggggtc aggaggcccc
  121 caggagcaag tggccctggc aggtgagcct gagagtccac ggcccatact ggatgcactt
  181 ctgcgggggc tccctcatcc acccccagtg ggtgctgacc gcagcgcact gcgtgggacc
  241 ggacgtcaag gatctggccg ccctcagggt gcaactgcgg gagcagcacc tctactacca
  301 ggaccagetg etgeeggtea geaggateat egtgeaceea eagttetaea eegeeeagat
  361 cggagcggac atcgccctgc tggagctgga ggagccggtg aaggtctcca gccacgtcca
  421 cacggtcacc ctgccccctg cctcagagac cttccccccg gggatgccgt gctgggtcac
  481 tggctggggc gatgtggaca atgatgagcg cctcccaccg ccatttcctc tgaagcaggt
  541 gaaggtcccc ataatggaaa accacatttg tgacgcaaaa taccaccttg gcgcctacac
  601 gggagacgac gtccgcatcg tccgtgacga catgctgtgt gccgggaaca cccggaggga
  661 ctcatgccag ggcgactccg gagggcccct ggtgtgcaag gtgaatggca cctggctgca
  721 ggcgggcgtg gtcagctggg gcgagggctg tgcccagccc aaccggcctg gcatctacac
  781 ccgtgtcacc tactacttgg actggatcca ccactatgtc cccaaaaagc cgtgagtcag
  841 gcctgggttg gccacctggg tcactggagg accaacccct gctgtccaaa acaccactgc
  901 ttcctaccca ggtggcgact gcccccaca ccttccctgc cccgtcctga gtgccccttc
  961 ctgtcctaag cccctgctc tcttctgagc cccttcccct gtcctgagga cccttcccca
 1021 teetgageee cetteeetgt cetaageetg acgeetgeae egggeeetee ggeeeteece
 1081 tgcccaggca gctggtggtg ggcgctaatc ctcctgagtg ctggacctca ttaaagtgca
 1141 tggaa
(2) INFORMATION FOR SEQ ID NO:2646:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1137 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2646
   1 tgaatctgct gctgctggcg ctgcccgtcc tggcgagccg cgcctacgcg gcccctgccc
   61 caggccaggc cctgcagcga gtgggcatcg tcgggggtca ggaggccccc aggagcaagt
 121 ggccctggca ggtgagcctg agagtccacg gcccatactg gatgcacttc tgcgggggct
 181 ccctcatcca cccccagtgg gtgctgaccg cagcgcactg cgtgggaccg gacgtcaagg
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 361 tegecetget ggagetggag gageeggtga aegteteeag ceaegteeac aeggteacee
 421 tgccccctgc ctcagagacc ttccccccgg ggatgccgtg ctgggtcact ggctggggcg
 481 atgtggacaa tgatgagcgc ctcccaccgc catttcctct gaagcaggtg aaggtcccca
 541 taatggaaaa ccacatttgt gacgcaaaat accaccttgg cgcctacacg ggagacgacg
 601 tecgeategt cegtgaegae atgetgtgtg cegggaacae eeggagggae teatgeeagg
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 781 actacttgga ctggatccac cactatgtcc ccaaaaagcc gtgagtcagg cctgggttgg
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(2) INFORMATION FOR SEQ ID NO: 2647:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 2197 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2647
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1 accagetgae aggtggaget gecagtetee agtgeteage ceteageggg geetgeetgg

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61 cagececaca caeagaggge ateggggtgg egggggeacg tgttacaegg gggeeetggg
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 301 cccagcetca gaetcagage accaagacee aggeeegeag geetggaeee acceeggtee
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 541 cctgcccctc accacattcc acaggtcagg gcctgggtgg gttctgggga ggtcgggctg
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 901 cgggtgctcc tgggggctgc ccagggccct gagtgggatc ctccgctgcc cagggacgtc
 961 aaggatetgg cegeeetcag ggtgeaactg egggageage acetetaeta eeaggaceag
1021 ctgctgccgg tcagcaggat catcgtgcac ccacagttct acaccgccca gatcggagcg
1081 gacatcgccc tgctggagct ggaggagccg gtgaacgtct ccagccacgt ccacacggtc
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1261 acageceage ecetgggtee etetgggete eaggtggggg ttgcceggee eceteetgag
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2041 agtgctggac ctcattaaag tgcatggaaa tcactggtgt gcatcgctgt gtttctggtt
2101 gtggatgtca ctgggagaga aggggtccag gtgtgctgag gacacctgcc acagtgtgag
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- (2) INFORMATION FOR SEQ ID NO:2648:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1154 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2648

1 ggaattccgt ggccaggatg ctgagcctgc tgctgctggc gctgcccgtc ctggcgagcc 61 gcgcctacgc ggcccctgcc ccagtccagg ccctgcagca agcgggtatc gtcgggggtc 121 aggaggcccc caggagcaag tggccctggc aggtgagcct gagagtccgc gaccgatact 181 ggatgcactt ctgcgggggc tccctcatcc acccccagtg ggtgctgacc gcggcgcact 241 gcctgggacc ggacgtcaag gatctggcca ccctcagggt gcaactgcgg gagcagcacc 301 tctactacca ggaccagctg ctgccagtca gcaggatcat cgtgcaccca cagttctaca 361 tcatccagac tggagcggat atcgccctgc tggagctgga ggagcccgtg aacatctcca 421 gccgcgtcca cacggtcatg ctgcccctg cctcggagac cttccccccg gggatgccgt 481 gctgggtcac tggctggggc gatgtggaca atgatgagcc cctcccaccg ccatttcccc 541 tgaagcaggt gaaggtcccc ataatggaaa accacatttg tgacgcaaaa taccaccttg 601 gegeetacae gggagaegae gteegeatea teegtgaega eatgetgtgt geegggaaea 661 gccagaggga ctcctgcaag ggcgactctg gagggcccct ggtgtgcaag gtgaatggca 721 cctggctaca ggcgggcgtg gtcagctggg acgagggctg tgcccagccc aaccggcctg 781 gcatctacac ccgtgtcacc tactacttgg actggatcca ccactatgtc cccaaaaagc 841 cgtgagtcag gcctgggtgt gccacctggg tcactggagg accaacccct gctgtccaaa 901 acaccactgc ttcctaccca ggtggcgact gcccccaca ccttccctgc cccgtcctga 961 gtgccccttc ctgtcctaag cccctgctc tcttctgagc cccttcccct gtcctgagga 1021 cccttcccca tcctgagccc ccttccctgt cctaagcctg acgcctgcac tgctccggcc

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## (2) INFORMATION FOR SEQ ID NO:2649:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1081 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2649
- 1 getgeeegte etggegagee gegeetaege ggeeeetgee ceaggeeagg eeetgeageg 61 agtgggcatc gttgggggtc aggaggcccc caggagcaag tggccctggc aggtgagcct 121 gagagteege gaeegatact ggatgeactt etgeggggge teeeteatee acceeeagtg 181 ggtgctgacc gcagcgcact gcgtgggacc ggacgtcaag gatctggccg ccctcagggt 241 gcaactgcgg gagcagcacc tctactacca ggaccagctg ctgccggtca gcaggatcat 301 cgtgcaccca cagttctaca ccgcccagat cggagcggac atcgccctgc tggagctgga 361 ggagccggtg aaggtctcca gccacgtcca cacggtcacc ctgccccctg cctcagagac 421 cttccccccg gggatgccgt gctgggtcac tggctggggc gatgtggaca atgatgagcg 481 cctcccaccg ccatttcctc tgaagcaggt gaaggtcccc ataatggaaa accacatttg 541 tgacgcaaaa taccaccttg gcgcctacac gggagacgac gtccgcatcg tccgtgacga 601 catgctgtgt gccgggaaca cccggaggga ctcatgccag ggcgactccg gagggcccct 661 ggtgtgcaag gtgaatggca cctggctgca ggcgggcgtg gtcagctggg gcgagggctg 721 tgcccagccc aaccggcctg gcatctacac ccgtgtcacc tactacttgg actggatcca 781 ccactatgtc cccaaaaagc cgtgagtcag gcctggggtg tccacctggg tcactggagg 841 accageceet cetgtecaaa acaecaetge tteetaeeea ggeggegaet geeeeecaea 901 cettecetge ecceptectga gtgcccette etgtectaag ecceetgete tettetgage 961 cccttcccct gtcctgagga cccttcccca tcctgagccc ccttccctgt cctaagcctg

1021 acgcctgcac cgggccctcc ggccctcccc tgcccaggca gctggtggtg ggcgctaatc

- (2) INFORMATION FOR SEQ ID NO:2650:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2280 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

1081 c

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2650
- 1 atctggaagc ataaatgggg aggggagagc ccactgggta gaaggaacag ggagcggcca 61 gggtaagtcc ccactctcag agaccctgac atcagcgtca cctggagcag agtggcccag 121 cttcagactc agagcaccaa gacccaggcc tgcaggcctg gacccacccc ggtccccccg 181 teccagetee attetteace ceacaatetg tageceecag ecetgeectg tgaggeeegg 241 ccaggeccae gatgeteete ettgeteece agatgetgaa tetgetgetg etggegetge 301 ccgtcctggc gagccgcgcc tacgcggccc ctggtgagtc ccagccgggg tccaccctgc 361 ccctcaccac attccacagg tcagggcctg ggtgggttct ggggaggtcg ggctggcccc 421 cacacaggga agggctgggc ccaggcctgg ggctgcttcc tggtcctgac ctggcacctg 481 ccccagcccc aggccaggcc ctgcagcgag tgggcatcgt tgggggtcag gaggccccca 541 ggagcaagtg gccctggcag gtgagcctga gagtccgcga ccgatactgg atgcacttct 601 gegggggete ceteatecae eeceagtggg tgetgaeege agegeaetge gtgggaeegt 661 gagtctcccg gggcctggag gggtggggaa gggctggatg tgagccctgg ctcccgggtg 721 ctcctggggg ctgcccaggg ccctgagtgg gatcctccgc tgcccaggga cgtcaaggat 781 ctggccgccc tcagggtgca actgcgggag cagcacctct actaccagga ccagctgctg 841 ccggtcagca ggatcatcgt gcacccacag ttctacaccg cccagatcgg agcggacatc 901 gccctgctgg agctggagga gccggtgaac gtctccagcc acgtccacac ggtcaccctg 961 ccccctgcct cagagacctt cccccgggg atgccgtgct gggtcactgg ctggggcgat 1021 gtggacaatg atggtgggtc tgggggacagt ggaggtgggg ccagggtctt agccacagcc 1081 cageceetgg geteeetetg ggeteeaggt gggggttgee eggeeeete etgaggetge 1141 accetettee ceacetgeag agegeeteee acegeeattt eetetgaage aggtgaaggt 1201 ccccataatg gaaaaccaca tttgtgacgc aaaataccac cttggcgcct acacgggaga 1261 cgacgtccgc atcgtccgtg acgacatgct gtgtgccggg aacacccgga gggactcatg 1321 ccaggtgggc cccgcctgtc ccccgccccc cgcccccaa cccccactcc caggcctgtt 1381 cggcgagcgc tgacctctga ccttcccagg gcgactccgg agggcccctg gtgtgcaagg 1501 accggcctgg catctacacc cgtgtcacct actacttgga ctggatccac cactatgtcc

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#### (2) INFORMATION FOR SEQ ID NO: 2651:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 17133 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2651

1 gggtctcaag gaatctttat tctgcgtctt cattctgaac tggatggaac cttcctgagc 61 gcagagtcct ttccactgtg aattatgggt ttgttatcgt ttttgttcgt tgctggttgt 121 acgtgacggg agttcagctt tttgctgcgg gacggcagag ataggatgcg gggcttcctg 181 agaggegeeg gggeagggee geacaggtee atceacetee cetgggaeee cagecetgea 241 gcagccccag gggagcggcc ggggatcggg gcggggtgcc caggacgcgc cctgattggc 301 ccagtgttag ccaatcaagg ctctcgcatc cccatggtgc tgattggtcc gcctcccagg 361 cctgacccaa tcggagcatt cctaggagga gcggccccag agcgcctgac tcgggggtcc 421 cagagecete tgeacaceae ageceeggtg teeeegtgtg teeetgggtt eteeeageee 481 tggtgtcccc tgagtctctt cttcaccgtc agccctggtg tctcccgtgt ccctgccaca 541 ccctcatece tggtgtecee egteaceeea tecceteace tectgggete etgaaggtee 601 catcttgtgg gcctcattca tggaaccagg acggggcagg tggaggcctc tggggagttt 661 gtccagagaa tggaggagaa gcagggtcat gagcaggagc ggtctgggcc acccctgcct 721 gtcccccggg gggtgcagcc cggaaggagt ccagatggat atggccccgc agtgcagagt 781 cagccccaaa ccaggctggt cccaggcagg gtgggggcag gaggagcccc ggagtggccc 841 tgtgttgggg gtcggggggc aggcaggggg tcctggggct cagaagcgga ggaggtgggc 901 tggaggccc agtgaccaac aggcccacgg gagtcgggag gtggggtgga cggacctgca 961 gggacagtgt cagcgctgaa tgggatggag agcacaggga gctggggccg gggatgagac 1021 catggggagc tggggctggg gctgggacta gtccatgggg agctggggct gaagttgggg 1081 gtgagtccat ggggagctgg gctgggcctc ctggggttgc acctgcactc ctctctgctc 1141 ttccctctgc gtatgaagct cagatcccat gataaggagg cacctgcaga ccaggggacc 1201 tgcacggaca gccccagagg tggacattga ggactcgtag gaggacttgg gtctcatacg 1261 gcgggtgggg agcagggccc cttcctggct gaggacactt ggtgctgtcc cctctcaagg 1321 ctgtttcccc atctgacaaa ggggtctcat gtgagccccc aaccaagtga gtcgaggagg 1381 getggeecea eeceegtgga tttggagtee gtaggagggg tgteaceegt eacgteecea 1441 ccccgtgggc accttcccgt ctcttggagc gtggcccatg gacatgagtt cctcacccgt 1501 gtccctcttg gggaaacagg tttcaggagc gacgggtctt gtagcctggg gcagccaggc 1561 cacctgggtg cagctatgcc tgaaggcctc ctggcaccga gacaggggca ggagcagatc 1621 ccaccagcgg gaaggtggtg cgttctgatg ctgggatcca ccagctgaca ggtggagctg 1681 cgagceteca gtgeteagee eteggegggg cetgeetgge ageeceacae acagagggea 1741 tcggggtggc gggggcacgt gttacacggg ggccctgggt ctgagtcatc cacttcctcc 1801 gagtctggat gggaggaccc agcgcccctc ctccgccccc tcctgatctg gaaggataaa 1861 tggggagggg agagcccgct gggtagaagg aacagggagt ggccagggta agtccctact 1921 ctcagagacc ctgacatcag tgtcacctgg agcagagtgg cccagcctca gactcagagc 1981 accaagaccc aggcccgcag gcctggaccc accccggtcc ccccgtccca gctccattct 2041 teaceceaca atetgtagee eccagecetg ceetgtgagg eccagecagg eccaegatge 2101 tecteettge tecceagatg etgageetge tgetgetgge getgeeegte etggegagee 2161 cggcctacgc ggcccctggt gagtcccagc cggggtccac cctgcccctc accacattcc 2281 tgggcccagg cgtggggctg cttcctggtc ctgacctggc acctgcccca gccccagtcc 2341 aggccctgca gcaagcgggt atcgtcgggg gtcaggaggc ccccaggagc aagtggccct 2401 ggcaggtgag cctgagagtc cgcgaccgat actggatgca cttctgtggg ggctccctca 2461 tecacececa gtgggtgetg accgeggege actgeetggg accgtgagte teceagggee

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## (2) INFORMATION FOR SEQ ID NO:2654: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17634 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2654 1 ttctccttct ccccaacagt tccccaggga cctctctcta atcagccctc tggcccaggc 61 agtcagatca tettetegaa eecegagtga caageetgta geecatgttg tageaaaeee 121 tcaagctgag gggcagctcc agtggctgaa ccgccgggcc aatgccctcc tggccaatgg 181 cgtggagctg agagataacc agctggtggt gccatcagag ggcctgtacc tcatctactc 241 ccaggteete tteaagggee aaggetgeee etceaceeat gtgeteetea eccaeaceat 301 cagccgcate geogtetect accagaceaa ggtcaacete etetetgeea teaagageee 361 ctgccagagg gagaccccag agggggctga ggccaagccc tggtatgagc ccatctatct 421 gggaggggtc ttccagctgg agaagggtga ccgactcagc gctgagatca atcggcccga 481 ctatctcgac tttgccgagt ctgggcaggt ctactttggg atcattgccc tgtgaggagg 541 acgaacatee aacetteeca aacgeeteee etgeeceaat eeetttatta eeeeeteett 601 cagacaccet caacetette tggetcaaaa agagaattgg gggettaggg teggaaceca 661 agcttagaac tttaagcaac aagaccacca cttcgaaacc tgggattcag gaatgtgtgg 721 cctgcacagt gaattgctgg caaccactaa gaattcaaac tggggcctcc agaactcact 781 ggggcctaca gctttgatcc ctgacatctg gaatctggag accagggagc ctttggttct 841 ggccagaatg ctgcaggact tgagaagacc tcacctagaa attgacacaa gtggacctta 901 ggccttcctc tctccagatg tttccagact tccttgagac acggagccca gccctcccca 961 tggagccagc tccctctatt tatgtttgca cttgtgatta tttattattt atttatt 1021 tatttattta cagatgaatg tatttatttg ggagaccggg gtatcctggg ggacccaatg 1081 taggagetge ettggeteag acatgtttte egtgaaaaeg gagetgaaca ataggetgtt 1141 cccatgtagc cccctggcct ctgtgccttc ttttgattat gttttttaaa atatttatct 1201 gattaagttg tctaaacaat gctgatttgg tgaccaactg tcactcattg ctgagcctct 1261 gctccccagg ggagttgtgt ctgtaatcgc cctactattc agtggcgaga aataaagttt 1321 gctt 1 tacgggccgg gcactcccga gctgctgctc gagggcgccg agacggtgac tccagtgctg 61 gacceggeca ggagacaagg gtacgggect ctctggtaca cgagegtggg gtteggegge 121 ctggtgcagc tccggagggg cgagagggtg tacgtcaaca tcagtcaccc cgatatggtg 181 gacttcgcga gagggaagac cttctttggg gccgtgatgg tggggtgagg gaatatgagt 241 gcgtggtgcg agtgcgtgaa tattgggggn ccggacgccc aggaccccat ggcagtggga 301 aaaatgtagg agactgtttg gaaattgatt ttgaacctga tgaaaataaa gaatggaaag 361 cttcagtgct gccgataaag atgctgagtt gcgacacacg tcttaattca gggtgggtgc 421 acgggtgcgg gttaaatatt ctcagtactc ttctggttgc ttgaaacaat tcatcacaac 481 acagtgtatg gcctttgctc ctagggatga tggtctgcct gtcccacccc ctccctgcct 541 ctgaatggcc aggccccacc attagcccag ttggagggtg ggaggaaggg ggacttctca 601 aactccgaag cttctctagg catcctgatt ttcagggcca catggtccca accagactct 661 gcaccatact cttttctctt gggtaccccc caacagtgag aggggtcatt acagagccca 721 gcaagcacca ctcagaaagg cccagcagca gagtaagccc ctatcatgac agaggaatga 781 agectggagg ggccccgcac ttctcccct agagctgcct gaaggcctct ctgtctccta 841 cccgacagtc aactettete etccaaggag ettaatteaa ggeteatggg gtetgaaggg 901 aggaggctga aggagaaaga aggggagaat attagagaga gatggggatg gcaggaagga 961 gcctgtggtg cctgaaaaca ccaggaagtt ctggggagga ggaaaaaccg atgccccact 1021 tagggtgtcc catttagggt gagacggaaa atcctcacct ttttttcaca ctttaggtcc 1081 cccttcccaa aagtgagtaa gtgtgggtgc ttctgggatg agtaacagtg tcccccatta 1141 cttcatggct gactttcagc cacaggctgg aggaggcaga gggtgaccca aggccctatc 1201 taggtcaccc caatgggtca ccctaccccc tcagcctacc acatggtttt ctcctgcctg 1261 gcaccccagg gctggaggta aagcctaatt ttccgaactt cagttggggc tcccagtcta 1321 ggggggctca atttccgtct ccatattttg ttttggaatt attattttt tgagacaggg 1381 tetegttetg teacceagae gggggtacag tggcatgate atagettaet gtaaceteaa 1441 actcctgggc ttgagtgatc ctcctgcctc agcctcctga ggagctagga ttacaggcat 1501 gcaccactac acctgactaa tctttaattt tttttctaga aacaaggtct tgctatgttg 1561 cacaggetgg tettgaacta gtgggetcaa gtggteetee caceteagee teecaaagtg 1621 ttgggataac aggcatgagc cactgcgccc caccettatt tgtctttgac tctctccaga 1681 agageettea teeagggagg gggtgetttt etettteegg attacceace teteacetet

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11281	gccaaatttt	tttttgtatt	tttagtagag	acggggtctc	accatgttgg	ccaggttggt
11341	cttgaattcc	tgaccacagg	tgacccacca	gccttggcct	cccaaagtgc	tgggattatg
11401	ggcgtgagcc	actgcgccca	accttcttct	cattctttta	accttattat	ctcttgtgtc
11401	agtgtgggtt	tcccttttag	cccctgctcc	tttcttttc	tctgtgttgc	cctttctctc
11521	agggtccttt	ttgcttcctg	ttgtctcttt	ctgcttctct	aatggtatga	gctgatggac
11001	tgggacccca	gctgagctat	attaaaatat	aaaatgttat	tacaaggcca	ggagcagtgg
11701	cacatgcctg	tcatcccagc	actttgggag	gctgaggcga	gcagatcaca	aggtcaggag
11761	atagagacaa	tectggetaa	tacggtgaaa	ctccatcact	gctaaaaata	caaaaaatta
11921	gccgagcatg	grggcaegeg	cctgtaatcc	tagctactag	ggaagctgag	gcaggagaac
11021	tgcttgaacc	caggaggcgg	aggttgcagt	gagccgagat	cgtgccactg	ccctccagcc
11001	tgggcaacaa	agrgagacic	catttcaaac	aaaccaacca	aaaaacaaaa	caaaacaaaa
12001	caagcaaaca	tagasastta	regeaattaa	cagtgagaca	cagagagaaa	tttaaattaa
12061	agaggaagaa	cagagagagag	aaagacaaaa	aagggaaggc	aagaagggtg	atggggagac
12121	atgagagaca	cayaggaagg	aagggtaaga	ctgggctgag	gctcagtgtc	acgtgcatgt
12121	gagatatgcg	aaggatgete	cttgagatgg	gccaatcttg	gtttcaatct	cagtttcgga
12241	ggttgtatga	tastasetes	actation	ggccagcagt	tggtttggga	ctttccctgg
12301	gtgggagagc	ggaggagage	agtettgtge	cccagactca	gggaaataca	gtctttatag
12301	taggtctttgt	gyayaaacta	grgaaatctc	tgaagcctcc	aaatgagact	gaaatgacat
12421	tagcttcaaa	tttaaactta	gccccaaaac	ctgaattggg	atttaatacc	aacatcaacc
12421	ctaacccaaa	ctaacctca	acccaaatca	caactcaaac	tcaaccccaa	ctgtaaccct
125/1	aacctcaaat	ctatatata	cccaattaat	aaccccctaa	ataaaacttc	tcctctaccc
12601	caacccaacc	tasatata	ggctaatctt	gaaaccagtt	taccaccact	cctaacacta
12661	aacttaaatc	et annut nat	cgtaagtcca	atctgagcca	caagcctaaa	gttgaacttt
12701	atcctgcttt	attataatt	catccattcc	tccatttagt	gagtatctgc	gtgcctaaca
12791	catgctgggc	tagaaattat	yycaggaggg	acatggaggg	caaagggatc	agagaaggta
12841	ccagcacctg ggaaggaaat	ttaatactat	gagaaaataa	ggcccagacg	gaaaaagaaa	gaaacttgaa
	,,yyaaac	yy cuctat	yuyuaaatad	yacayyctga	igilgtaaga	yrggcaggga

12001						
12901	gctactttta	a aatacagtag	g tcagcaaaa	t cctctttga	g tgtttgggt	g gcactggagc
15901	tgagacccaa	i atgacaaaaa	a ataqtqacca	a ggtaaaagti	t tagaaacaaa	acatttcaca
13021	taaagggagc	: agctactgca	a aaggctggaa	a ggcggaacca	a agctgggggt	attaacaaca
12091	aacagaaggo	: cagtgtggct	ggagcagaga	a gagagactg	a gaggggggt	nnantanan r
13141	tcagagagga	i gggcagggg	: caggtcatgo	c agggccatg	aagaagggta	a agreet et ag
13201	atticatcca	ı gccacagga <i>a</i>	i gcctttaaac	g qtcqtcagac	r tatataataa	atacatatat
12501	gigigigigi	gigigitge	qqqqaqaqaq	a duddaddada	agagagagac	nneneenene r
13321	gaggtgagca	ı gaggtgattç	gatttttttt	: tcttttgaca	a tagtatette	ctctataacc
12201	taggctggag	ı tgcagtggca	ı ccatcataqo	ccactgcaac	: ctcaaaacca	tagactcaaa
13441	teatecttee	: acctcagctt	cccaaqtato	: taggactaca	a gatatataca	actataceta
13201	gctaatttta	. aaaaatattt	: taaaattttt	gttgagacac	r ggtctatgct	acteagacta
13201	gtctcgaact	: cctggtttca	agtgatctqc	ccatcttggc	: ctcccaaagt	tttttttt
13021	tagtttgaga	ggcggtttcg	rctcgttgccc	: aggctggagt	gcaatgacto	atctcatctc
T200T	actgcaacct	ctgcctcctq	gqttcaagco	r atteteetge	: ttcagcctcc	caadtadctd
13/41	ggattacagg	tgcatgccac	cattcccggc	: taatttttc	r tatttagtag	agatggggtt
13001	Caccalgita	gtcaggctga	tctcaaactc	: ctgacctcac	r gtgatccgcc	tacctcaacc
12001	teccaaagtt	ttgggattac	aggtgtgagg	: caccatgete	r ddccadcctc	ccaaagtttt
13921	gggattacag	gcatgagtca	ccacactggc	: cctggatttt	ttttcttct	tttttttaaa
13301	gacggagtct	cactctgttg	cccaggctgg	r aqtqcaatqq	cotaatotoa	acticactaca
14041	acctctgctg	cccgggttca	aacgattctc	: ctgtcttagc	ctcctgagta	actaggatta
14101	taggtgcatg	ccaccatgcc	tggctaattt	ttgtactttt	agtagagaaa	gtacaccatc
14161	ttggccaggc	tggtctcgaa	ctcctgacct	caggtgatcc	acttgcgtcg	accteccasa
14221	grgcrgggat	tacaggcgtg	agacaccgca	cccagcettt	ttttt+++++	ttttcttt
14201	agacagaatc	gctctgtcac	ccaggctgga	gtgcagtggc	acaatotogo	ctcactgcaa
T424T	colorgecte	ccaggtttaa	gcaatccacc	tatotcaotc	teccaagtag	ctaggattat
14401	aggtgcatgt	caccatgcct	ggctaatttt	tgtactttta	gtatagaaag	tacaccatot
14401	tggccaggct	ggtcttgaac	tcctgacctc	aagtgatccg	cctacctcaa	cctcccaaa
14521	tgctggaatt	acagacatgt	gccactgcac	ccaacctaat	tttttttttc	taagagatgg
14581	agtctcactt	ttctgcccag	gttggagtgc	aatggcacca	tcatagetca	ctacaacctt
14641	caactcttgg	cctcaggcaa	tccttqcacc	ttagcctcgc	aaagtgttgg	gattacagge
14/01	atgagccact	gagccttgcc	tggacttttt	tttttttta	agatggcgtc	tcactctatt
14/01	geceagging	gagtgctacg	gcatgatctt	ggctcactgc	aacttccacc	tcccaggttc
14021	aagcgattct	cttgcctcgg	ccccccgagt	agctgggatt	acadcatdcd	ccaccatacc
14001	iggotaattt	tggtatttt	aqtaqaqata	gggtttcatc	atgttgggca	aactaatett
14941	gaactcctga	cctcgtgatc	cacccacctc	ggcctcccaa	agtgctggga	ttatagggat
13001	agccaacgcg	cccagcctgg	acttgttttt	aaaagatcac	tataactect	atatttaaac
15101	rggctggtag	gagacaggtg	gcagtgacat	tgatggtgaa	gagaaaatag	tggcagccat
10121	ggagatggag	agaagtagac	aaqtttqqqa	tatattatac	attccagggg	tagaacaac
12101	aggactagat	gatggattga	tgggtgggag	atgtagatac	taggagagaa	gcaggattct
13241	gatggatgga	aaaactaaaa	aattctattt	tagatataat	aagtctaagt	ctattagaca
15361	rgcaagtaga	gatgtcactg	ggcagataca	catctggatt	tcaggggcaa	ggtccaagct
15/21	ttataaataa	acctgggcat	ggtcagcatg	aggatggtgt	ttaaagccat	ggaacttatc
15421	atattaatt	ctataagacc	cctttgaggc	acttgtttcc	cctcacaatg	gatgcagtgc
155/1	accelecate	ctgaattcca	gaggcaacaa	cctcctgctc	ctagaagcta	aactctccag
15601	accuagecet	ctgaattccc	actgggattt	aacctccctg	gattcaattc	cctaccccac
15661	ctatattata	ctaccaatcc	atttcacaat	atttggtgga	actcttcaca	ttttcaaatc
15721	tastactact	cototototo	cattttcctc	tgggcatttt	gaaacctggc	tttcccctaa
15721	gatgetaet	cotetetgtg	gtgaaggttg	ctctttcttc	gactccatca	ctaggggaat
15841	yaayycayaa catctccc	yayaygggtc	greatcccct	ctccccagg	accactgata	aactcctcct
15901	catciccoda cttatcosts	ageacgtgcc	ttctggatct	gccatgctct	ccctgccttc	acagcacaat
15961	Ccacatotto	tooctacet	ctatgctctt	aacaacttgt	ataactagct	cagtctttct
16021	atcacca:	ctaccat	catccttgtt	tgtttgtttt	ttgagacaag	gtattgctct
16021	otonacton+	ciggagtgca	grggcgtgat	cttggctcac	tgcagcctcg	acctcctggg
161/1	taccaagigat	natth	cagcctcctg	agtagctagg	actacaggcg	cataccacca
16201	aggetggeta	ayııttgtat	ccttttttt	ttccagagat	agggttttgc	tatgttgcct
10201	aggerggree	tgaactcctq	agctcaagca	atccaccccc	ctcagcctcc	caaagtgctg
7050I	garcacagg	catgacccac	cgcacccggc	ctcctaccac	catctttagt	

- (2) INFORMATION FOR SEQ ID NO:2655:
  (i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 2396 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2655

1 aattcgataa ttcaaaatga tatttcagtg gggacaaggc caaaccatat tatgtgcttt 61 atgctactaa taaaaaggtt aaaccgaaca agttcaaaga caaaactcag tagtacttta 121 ttcagacagg ttagtctaaa tctgttaacc ttatacttgc aactctgatc attcattaat 181 tctgcaaatt ttaataaatg ctttatttta agctaaatgc tgagatgaaa aaatgaaacc 241 atatgagtta gcaaagtaga aaatataggc atattaatca gtaaatgcag aatgataaat 301 gctccatcaa tatgcacttg ttgtagtgag gccaccgagg agggtgcaat cctctcaacc 361 tgggaggagc aggtaggact tcagatgtca tccaactcaa agatatagtg agggacttga 421 tcaaacattt gccaagacca ctatgagtta aatgaataga ttaggcattt ctccaatgtt 481 gcaagetteg aateatatee aaacteagaa caacataget tggteataat gateeeaagg 541 atcctattgg ccattgtctt tgagcctcaa aggaacatat taaaactcca taataccctt 601 ttgatctatt ctgaagttaa gtagtgaatt tacatgatga tgacacaaac actgtaaagg 661 acctetgggt tacttgttta taagetagta ttteetgaat caatttttet gateeetaga 721 tatttggtag gtgaagtcat acctatatat ccccacaccc tagaacagca tctccaactt 781 ttttttccct ccttgtcttt tagtgggagc cacatcagta tccaaggagg agatccagaa 841 gcctctccaa ccaggtaggg acagttatag attccagacc tcagctatgg cctttgttac 901 agagtacaaa tqttatatag tacaagttta ttgtacacat cccattgagt ctctgagctt 961 tagaattttc ttqtaqaatt taacaqtttt ttcatqccqt atttacatat tattqctaqt 1021 atttagaatt ttcttctcca aatgtataac gtttattatt gcattttttg tatccactaa 1081 qtqqaaaatc atqcattaqa tattqtaqaa qtaqatacaa caatqaacaa qaactggtcc 1141 tgaccatgag aggaactgat gatccaatgg gggagataga cctgcacgtg tttaataaaa 1201 ggaagtggct attccggttt ctttttgatg ggcaagcatt ttgcaaggcc ttgggctatg 1261 tgtgtgcaag gctaagccag ttagttaatt gggatttttt taaaaaggca cttcactggg 1321 qqqaaaaqqa acataqaqtt qqttattqtc cccttqccta taataaaaac ctattattt 1381 taatttttta actgggtttg cggttaaatc tcacagccca agagatttgc cacttcagat 1441 ggattccata cacttgcatt taagtatgca aaaaaattcc aattatccag caatttaacc 1501 aaattattgg taacttttct aaaacaaaaa aaaattgttt cccttgtttt ggcagcaatt 1561 tcagttacag tcctttactt tctactcaag aaaatagttt caaaaagttg atgtttgttg 1621 ctaaaagaac tatttttatg aataaatata aaactaagaa gttatggtgt ccctttttta 1681 aaaaatgact catcaaaaga aataactttt tcctttctct tgtaagagaa aaaaattaat 1741 ctcttttaga attgcaaaca tatttccttg atggagaaaa tcaattcaca tggcatagtc 1801 gttatttatc cagttcaaaa accagagtag aatttactac tctgtctcca ttttttctct 1861 ccccacccc ttaacccaca ttggattcag aaagettcat tctgcaatca gcattgtcct 1921 ttatctttcc agtaaagata qccttttgga gtcgaagatg aggaaaagcc tgtattttat 1981 agtcttggaa gtgtcttctt ttgccaggac agagagagga gcttcagcag tgagagcaac 2041 tgaaggggtt aatagtggaa cttggctggg tgtctgttaa acttttttcc ctggctctgc 2101 cctgggtttc cccttgaagg gatttccctc cgcctctgca acaagaccct ttataaagca 2161 cagactttct atttcactcc gcggtatctg catcgggcct cactggcttc aggagctgaa 2221 taccetecca ggcacacaca ggtgggacac aaataagggt tttggaacca ctattttete 2281 atcacgacag caacttaaaa tgcctgggaa gatggtcgtg atccttggag cctcaaatat 2341 actttggata atgtttgcag cttgtaagtt atttcccttc atctgtttca aatgtt

#### (2) INFORMATION FOR SEQ ID NO: 2656:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2220 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2656
- 1 atgcctggga agatggtcgt gatccttgga gcctcaaata tactttggat aatgtttgca 61 gcttctcaag cttttaaaat cgagaccacc ccagaatcta gatatcttgc tcagattggt 121 gactccgtct cattgacttg cagcaccaca ggctgtgagt ccccattttt ctcttggaga 181 acccagatag atagtccact gaatgggaag gtgacgaatg aggggaccac atctacgctg 241 acaatgaatc ctgttagttt tgggaacgaa cactcttacc tgtgcacagc aacttgtgaa 301 tctaggaaat tggaaaaagg aatccaggtg gagatctact cttttcctaa ggatccaga 361 attcatttga gtggccctct ggaggctggg aagccgatca cagtcaagtg ttcagttgct 421 gatgtatacc catttgacag gctggagata gacttactga aaggagatca tctcatgaag 481 agtcaggaat ttctggagga tgcagacagg aagtccctgg aaaccaagag tttggaagta 541 acctttactc ctgtcattga ggatattgga aaagttcttg tttgccgagc taaattacac

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601 attgatgaaa tggattctgt gcccacagta aggcaggctg taaaagaatt gcaagtctac
 661 atatcaccca agaatacagt tatttctgtg aatccatcca caaagctgca agaaggtggc
 721 tetgtgacca tgacetgtte cagegaggt etaceagete cagagatttt etggagtaag
 781 aaattagata atgggaatct acagcacctt tctggaaatg caactctcac cttaattgct
 841 atgaggatgg aagattctgg aatttatgtg tgtgaaggag ttaatttgat tgggaaaaac
 901 agaaaagagg tggaattaat tgttcaagag aaaccattta ctgttgagat ctcccctgga
 961 ccccggattg ctgctcagat tggagactca gtcatgttga catgtagtgt catgggctgt
1021 gaatccccat ctttctcctg gagaacccag atagacagcc ctctgagcgg gaaggtgagg
1081 agtgagggga ccaattccac gctgaccctg agccctgtga gttttgagaa cgaacactct
1141 tatctgtgca cagtgacttg tggacataag aaactggaaa agggaatcca ggtggagctc
1201 tactcattcc ctagagatcc agaaatcgag atgagtggtg gcctcgtgaa tgggagctct
1261 gtcactgtaa gctgcaaggt tcctagcgtg tacccccttg accggctgga gattgaatta
1321 cttaaggggg agactattct ggagaatata gagtttttgg aggatacgga tatgaaatct
1381 ctagagaaca aaagtttgga aatgaccttc atccctacca ttgaagatac tggaaaagct
1441 cttgtttgtc aggctaagtt acatattgat gacatggaat tcgaacccaa acaaaggcag
1501 agtacgcaaa cactttatgt caatgttgcc cccagagata caaccgtctt ggtcagccct
1561 tectecatee tggaggaagg cagttetgtg aatatgacat gettgageea gggettteet
1621 gctccgaaaa tcctgtggag caggcagctc cctaacgggg agctacagcc tcttctgag
1681 aatgcaactc tcaccttaat ttctacaaaa atggaagatt ctggggttta tttatgtgaa
1741 ggaattaacc aggctggaag aagcagaaag gaagtggaat taattatcca agttactcca
1801 aaagacataa aacttacagc ttttccttct gagagtgtca aagaaggaga cactgtcatc
1861 atctcttgta catgtggaaa tgttccagaa acatggataa tcctgaagaa aaaagcggag
1921 acaggagaca cagtactaaa atctatagat ggcgcctata ccatccgaaa ggcccagttg
1981 aaggatgcgg gagtatatga atgtgaatct aaaaacaaag ttggctcaca attaagaagt
2041 ttaacacttg atgttcaagg aagagaaaac aacaaagact atttttctcc tgagcttctc
2101 gtgctctatt ttgcatcctc cttaataata cctgccattg gaatgataat ttactttgca
2161 agaaaagcca acatgaaggg gtcatatagt cttgtagaag cacagaaatc aaaagtgtag
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### (2) INFORMATION FOR SEQ ID NO:2657:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4616 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2657

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1 aattcgataa ttcaaaatga tatttcagtg gggacaaggc caaaccatat tatgtgcttt
  61 atgctactaa taaaaaggtt aaaccgaaca agttcaaaga caaaactcag tagtacttta
 121 ttcagacagg ttagtctaaa tctgttaacc ttatacttgc aactctgatc attcattaat
 181 tctgcaaatt ttaataaatg ctttatttta agctaaatgc tgagatgaaa aaatgaaacc
 241 atatgagtta gcaaagtaga aaatataggc atattaatca gtaaatgcag aatgataaat
 301 gctccatcaa tatgcacttg ttgtagtgag gccaccgagg agggtgcaat cctctcaacc
 361 tgggaggagc aggtaggact tcagatgtca tccaactcaa agatatagtg agggacttga
 421 tcaaacattt gccaagacca ctatgagtta aatgaataga ttaggcattt ctccaatgtt
 481 gcaagcttcg aatcatatcc aaactcagaa caacatagct tggtcataat gatcccaagg
 541 atcctattgg ccattgtctt tgagcctcaa aggaacatat taaaactcca taataccctt
 601 ttgatctatt ctgaagttaa gtagtgaatt tacatgatga tgacacaaac actgtaaagg
 661 acctctgggt tacttgttta taagctagta tttcctgaat caatttttct gatccctaga
 721 tatttggtag gtgaagtcat acctatatat ccccacaccc tagaacagca tctccaactt
 781 ttttttccct ccttgtcttt tagtgggagc cacatcagta tccaaggagg agatccagaa
 841 gcctctccaa ccaggtaggg acagttatag attccagacc tcagctatgg cctttgttac
 901 agagtacaaa tgttatatag tacaagttta ttgtacacat cccattgagt ctctgagctt
 961 tagaattttc ttgtagaatt taacagtttt ttcatgccgt atttacatat tattgctagt
1021 atttagaatt ttcttctcca aatgtataac gtttattatt gcattttttg tatccactaa
1081 gtggaaaatc atgcattaga tattgtagaa gtagatacaa caatgaacaa gaactggtcc
1141 tgaccatgag aggaactgat gatccaatgg gggagataga cctgcacgtg tttaataaaa
1201 ggaagtggct attccggttt ctttttgatg ggcaagcatt ttgcaaggcc ttgggctatg
1261 tgtgtgcaag gctaagccag ttagttaatt gggatttttt taaaaaggca cttcactggg
1321 gggaaaagga acatagagtt ggttattgtc cccttgccta taataaaaac ctattattt
1381 taatttttta actgggtttg cggttaaatc tcacagccca agagatttgc cacttcagat
1441 ggattccata cacttgcatt taagtatgca aaaaaattcc aattatccag caatttaacc
1501 aaattattgg taacttttct aaaacaaaaa aaaattgttt cccttgtttt ggcagcaatt
1561 tcagttacag tcctttactt tctactcaag aaaatagttt caaaaagttg atgtttgttg
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1621 ctaaaagaac tatttttatg aataaatata aaactaagaa gttatggtgt cccttttta
 1681 aaaaatgact catcaaaaga aataactttt tcctttctct tgtaagagaa aaaaattaat
1741 ctcttttaga attgcaaaca tatttccttg atggagaaaa tcaattcaca tggcatagtc
1801 gttatttatc cagttcaaaa accagagtag aatttactac tctgtctcca tttttctct
1861 ccccacccc ttaacccaca ttggattcag aaagcttcat tctgcaatca gcattgtcct
1921 ttatctttcc agtaaagata gccttttgga gtcgaagatg aggaaaagcc tgtattttat
1981 agtcttggaa gtgtcttctt ttgccaggac agagagga gcttcagcag tgagagcaac
2041 tgaaggggtt aatagtggaa cttggctggg tgtctgttaa actttttcc ctggctctgc
2101 cctgggtttc cccttgaagg gatttccctc cgcctctgca acaagaccct ttataaagca
2161 cagactttct atttcactcc gcggtatctg catcgggcct cactggcttc aggagctgaa
2221 taccetecca ggcacacaca ggtgggacac aaataagggt tttggaacca ctatttete
2281 atcacgacag caacttaaaa tgcctgggaa gatggtcgtg atccttggag cctcaaatat
2341 actttggata atgtttgcag cttgtaagtt atttcccttc atctgtttca aatgtt
   1 atgcctggga agatggtcgt gatccttgga gcctcaaata tactttggat aatgtttgca
   61 gcttctcaag cttttaaaat cgagaccacc ccagaatcta gatatcttgc tcagattggt
 121 gactccgtct cattgacttg cagcaccaca ggctgtgagt ccccattttt ctcttggaga
 181 acccagatag atagtccact gaatgggaag gtgacgaatg aggggaccac atctacgctg
 241 acaatgaatc ctgttagttt tgggaacgaa cactcttacc tgtgcacagc aacttgtgaa
 301 tctaggaaat tggaaaaagg aatccaggtg gagatctact cttttcctaa ggatccagag
 361 attcatttga gtggccctct ggaggctggg aagccgatca cagtcaagtg ttcagttgct
 421 gatgtatacc catttgacag gctggagata gacttactga aaggagatca tctcatgaag
 481 agtcaggaat ttctggagga tgcagacagg aagtccctgg aaaccaagag tttggaagta
 541 acctttactc ctgtcattga ggatattgga aaagttcttg tttgccgagc taaattacac
 601 attgatgaaa tggattctgt gcccacagta aggcaggctg taaaagaatt gcaagtctac
 661 atatcaccca agaatacagt tatttctgtg aatccatcca caaagctgca agaaggtggc
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1801 aaagacataa aacttacagc ttttccttct gagagtgtca aagaaggaga cactgtcatc
1861 atctcttgta catgtggaaa tgttccagaa acatggataa tcctgaagaa aaaagcggag
1921 acaggagaca cagtactaaa atctatagat ggcgcctata ccatccgaaa ggcccagttg
1981 aaggatgcgg gagtatatga atgtgaatct aaaaacaaag ttggctcaca attaagaagt
2041 ttaacacttg atgttcaagg aagagaaaac aacaaagact atttttctcc tgagcttctc
2101 gtgctctatt ttgcatcctc cttaataata cctgccattg gaatgataat ttactttgca
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- (2) INFORMATION FOR SEQ ID NO:2658:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 6210 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2658
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  - 61 cttccacgct ttgcactgaa ttagggctag aattggggat gggggtaggg gcgcattcct
  - 121 tcgggagccg aggcttaagt cctcggggtc ctgtactcga tgccgtttct cctatctctg

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301	cgccgttccc	gcctcccctc	cccagccgc	ggcccccgcc	tccccccqca	ctgcaccctc
361	ggtgttggct	gcagcccgcg	agcagttccc	gtcaatccct	cccccttac	acaggatgtc
421	catattagga	catctgcgtc	agcaggtttc	cacggccttt	ccctgtagcc	ctggggggag
481	ccatccccga	aacccctcat	cttgggggg	ccacqaqacc	tctgagacag	gaactgcgaa
541	atgctcacga	gattaggaca	cgcgccaagg	cgggggcagg	gagetgegag	cactagggac
601	gcagccgggc	ggccgcagaa	gcgcccaggc	ccqcqcqcca	ccctctaac	gccaccgtgg
661	ttgagcccgt	gacgtttaca	ctcattcata	aaacgcttgt	tataaaagca	ataactacaa
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961	gatageetet	cttactacca	ctcacccgca	gactccttct	ccarcatoro	ctcacctatc
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1081	aggagacacc	gaacaaaca	ctccagtaga	tgagtagggg	actecettat	acctagaaga
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1201	acqcttqcca	tagtaagaat	taattocco	ttcgggaggc	aggttcgttc	taaacaacct
1261	ctggtctgca	ctccaggacg	gatetetgae	attagctgga	gcagacgtgt	cccaagcaaccc
1321	aactcgctaa	ctagageetg	gettettega	ggaggtggca	gaaaacaaca	atccccctc
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1441	aaggcagttt	cattgataaa	aagcgagttc	attctggaga	ctccaaaaca	gegggegege
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1561	ataacgggaa	cacaacaaca	ggatggaaga	gacaggcact	acactacaa	atacctagas
1621	qqaaaaqqqq	gagacettte	atccaggatg	agggacattt	aaratraaat	atcatage
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1741	cctactcact	cacatcaact	ttccccttct	gttttgttct	aggacttctg	caccagaceta
1801	gccgtctcca	gtgccaactt	cattcccacg	gtcactgcca	tetegaceag	teeggaceta
1861	cagtggctgg	tgcagcccgc	cctcatctcc	tctgtggccc	categoragae	cagageeet
1921	caccctttcg	gagtccccgc	ccctccact	ggggcttact	ccaggagag	cattatasaa
1981	accatgacag	gaggeegage	gcagagcatt	ggcaggaggg	acaaggtaga	acaddtgadd
2041	aactctagcg	tactcttcct	gggaatgtgg	gggctgggtg	adaadcadcc	ccadagatac
2101	aggagcccag	tacagaggat	gaagccactg	atggggctgg	ctgcacatcc	gtaactggga
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2221	tctcatagtt	tcttccctaa	gtttcttacc	gcatgctttc	agactgggct	cttctttatt
2281	ctcttgctga	ggatcttatt	ttaaatgcaa	gtcacaccta	ttctgcaact	gcaggtcaga
2341	aatggtttca	cagtggggtg	ccaggaagca	gggaagctgc	aggagccagt	tctactgggg
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2761	aactagagtt	catcctggca	gctcaccgac	ctgcctgcaa	gatccctgat	gacctgggct
2821	tcccagaaga	gatgtctgtg	gcttcccttg	atctgactgg	gggcctgcca	gaggttgcca
2881	ccccggagtc	tgaggaggcc	ttcaccctgc	ctctcctcaa	tgaccctgag	cccaagccct
2941	cagtggaacc	tgtcaagagc	atcagcagca	tggagctgaa	gaccgagccc	tttgatgact
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3121	ggatggggcc	catggccaca	gagctggagc	ccctgtgcac	tccaataatc	acctgtactc
3181	ccagctgcac	tgcttacacg	tcttccttcg	tcttcaccta	ccccgaggct	gactccttcc
3241	ccagctgtgc	agctgcccac	cgcaagggca	gcagcagcaa	tgagccttcc	totgactogo
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- (2) INFORMATION FOR SEQ ID NO:2659:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3565 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2659
  - 1 gcagcegge ggccgagaa gcgcccagge ccgcgcgca cccctetgge gccaccgtgg
    61 ttgagccgt gacgtttaca ctcattcata aaacgcttgt tataaaagca gtggctgcgg
    121 cgcctcgtac tccaaccgca tctgcagcga gcaactgaga agccaagact gagccggcgg
    181 ccgcggcga gcgaacgage agtgaccgtg ctcctaccca gctctgctte acagcgccca
    241 cctgtctccg cccctcggcc cctcgcccg ctttgcctaa ccgccacgat gatgttctcg
    301 ggcttcaacg cagactacga ggcgtcatcc tcccagcag gcagcggtc cccggcggg
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2281 ccccggagtc tgaggaggcc ttcaccctgc ctctcctcaa tgaccctgag cccaagccct
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2521 ggatggggcc catggccaca gagctggagc ccctgtgcac tccggtggtc acctgtactc
2581 ccagctgcac tgcttacacg tcttccttcg tcttcaccta ccccgaggct gactccttcc
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- (2) INFORMATION FOR SEQ ID NO:2660:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3198 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2660
- 1 cctcgaggtc gaagcttatt taaaagcata ttttccaatg cctgctttag ctgtggaaaa 61 ggaagactet eegagggeaa atecaggagt catggaaaac aatgggeagg geagettggt 121 gctgtgactg gatgggtctt taaggttgtt tcccttgaat aaagaatgag ggaattccac 181 caggggaagg agagtagacc aaacatttgg tgaacagaaa gggagacaga gtctttagtg 241 ttattcccca aatattcctg gagagncctt tgagacacct ggtaggatta tagtgatcta
- 301 aagaggcatg gccatgtgac tgcttnggcc aatgatgtat gggcagaagt gatgtgtgcc
- 361 ataagtggat gctctgacag acatgatgtt ccgagttcct tccccacagn caggatagct 421 gtgaaaaggg gtatcaacac gaggcctcct tcagcctgag ccctttagtg actacaatga
- 481 gcagagctac cctgccaacc tacaacggtc atgtagnaga aatgaccaac tttcactgga

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541 ataagncact gatatgttag ggttgnntgg tagggcagca taacactnnc tntcctgaca
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- (2) INFORMATION FOR SEQ ID NO: 2661:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3622 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2661
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#### (2) INFORMATION FOR SEQ ID NO: 2662:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 16595 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2662
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- (2) INFORMATION FOR SEQ ID NO:2663:
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3121	totoaaaaa	gccataatcg agagaaattt	tgccactgca	gtccagccta	ggcaacagag	tgagactttg
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3241	cccctaacat	gtttaaatgt	ccatttttat	teattateat	tettaaattg	tataaaatat
3301	aatacatgtt	tgttattaaa	tttattatta	aagatagtag	cogtagatata	attatgggga
3361	taacatctcc	taacttgttt	aaatgtccat	ttttattctt	tataattaaa	aaatttgata
3421	ggggatccta	tttagctctt	agtaccacta	atcaaaagtt	caacatataa	adiadaltat
3481	atgctgtttc	tatgtcgtgg	aagcaccgga	tagaaataat	gagcatgtag	gasstgates
3541	gcagtcacca	tagcagctga	ctgaaaatca	gcactgcctg	agtagttttg	atcactttaa
3601	cttgaatcac	taactgactg	aaaattgaat	gggcaaataa	atacttttat	Ctccagacta
3661	tgcgggagac	ccttccacct	caagatggat	atttcttccc	caaggatttc	aagatgaatt
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4621	tggctaatgc	caacggcagt	ttttttcttc	ttaattccac	atgactgagg	catatatgat
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# (2) INFORMATION FOR SEQ ID NO:2664:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1089 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2664
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- (2) INFORMATION FOR SEQ ID NO:2665:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 5947 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2665
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5941 agaagag
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- (2) INFORMATION FOR SEQ ID NO: 2666:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 5067 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2666
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2161	aaccccatga	gattctcata	ccadcaccaa	acccqtttca	tetecetaga	caegegggag
2221	aagaaggtct	tectggaetg	ctgcaactac	atcacagage	tacaacaaca	acacacaca
2281	gccagccacc	tagacctagc	caggagtaac	ctagatgaga	acatcattac	agaagagaag
2341	atcgtttccc	gaagtgagtt	cccadadadc	taactataaa	acattaaaaa	cttgaaagaa
2401	ccaccgaaaa	atggaatete	tacgaagete	atgaatatat	ttttgaaaga	ctccatcacc
2461	acgtgggaga	ttctaactat	cadcatatca	gacaagaaag	agatetatat	adcadacccc
2521	ttcgaggtca	cagtaatgca	ggacttcttc	atcaacctac	aactacccta	ctctattatt
2581	cgaaacgagc	aggtggaaat	ccaaaccatt	ctctacaatt	accaacaaaa	ccaagaggtc
2641	aaggtgaggg	tggaactact	ccacaatcca	accttctaca	acctaaccac	caccaagagete
2701	cgtcaccagc	agaccgtaac	cateccecee	aagtcctcgt	tatccattcc	atatotoato
2761	gtgccgctaa	agaccggcct	gcaggaagtg	gaagtcaage	ctaccatete	ccatcatttc
2821	atcagtgacg	atatcaggaa	atccctasa	atcataccaa	aaggaatcag	aatmaacaaa
2881	actgtggctg	ttcgcaccct	gaatccagaag	cacctacaca	ataaaaaa	acyaacada
2941	gacatcccac	ctgcagacct	cantraccas	at cccaaaca	ccaaatcta	gcayaaayay
3001	ctcctgcaag	ggaccccagt	aaccaata	acadaddata	ccatcascas	gaccayaatt
3061	aagcacctca	ttataacccc	ctcaaactac	acayayyacy	acatratore	ggaacyycty
3121	acggtcatcg	ctatacatta	cctagagacaga	acadaacaya	acacyatcyy	cacgacgeee
3181	aagcggcagg	agacettara	actestessa	aaggagcagt	cccarcarct	aggettera
	2-22-2633	,,,,coccyya	Joedaccaag	ggggcaca	Jourgeager	ggccccaya

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3241 caacccagct ctgcctttgc ggccttcgtg aaacgggcac ccagcacctg gctgaccgcc
3301 tacgtggtca aggtcttctc tctggctgtc aacctcatcg ccatcgactc ccaagtcctc
3361 tgcggggctg ttaaatggct gatcctggag aagcagaagc ccgacggggt cttccaggag
3421 gatgcgcccg tgatacacca agaaatgatt ggtggattac ggaacaacaa cgagaaagac
3481 atggccctca cggcctttgt tctcatctcg ctgcaggagg ctaaagatat ttgcgaggag
3541 caggicaaca gccigccagg cagcaicaci aaagcaggag acticciiga agccaaciac
3601 atgaacctac agagatecta cactgtggce attgetgget atgetetgge ceagatggge
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3721 gaggaccetg gtaagcaget ctacaacgtg gaggecacat cetatgeect ettggeecta
3781 ctgcagctaa aagactttga ctttgtgcct cccgtcgtgc gttggctcaa tgaacagaga
3841 tactacggtg gtggctatgg ctctacccag gccaccttca tggtgttcca agccttggct
3901 caataccaaa aggacgcccc tgaccaccag gaactgaacc ttgatgtgtc cctccaactg
3961 cccagccgca gctccaagat cacccaccgt atccactggg aatctgccag cctcctgcga
4021 tcagaagaga ccaaggaaaa tgagggtttc acagtcacag ctgaaggaaa aggccaaggc
4081 accttgtcgg tggtgacaat gtaccatgct aaggccaaag atcaactcac ctgtaataaa
4141 ttcgacctca aggtcaccat aaaaccagca ccggaaacag aaaagaggcc tcaggatgcc
4201 aagaacacta tgateettga gatetgtace aggtaceggg gagaeeagga tgeeactatg
4261 totatattgg acatatocat gatgactggc tttgctccag acacagatga cotgaagcag
4321 ctggccaatg gtgttgacag atacatctcc aagtatgagc tggacaaagc cttctccgat
4381 aggaacaccc tcatcatcta cctggacaag gtctcacact ctgaggatga ctgtctagct
4441 ttcaaagttc accaatactt taatgtagag cttatccagc ctggagcagt caaggtctac
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4621 caaaagtcgg atgacaaggt caccctggaa gaacggctgg acaaggcctg tgagccagga
4681 gtggactatg tgtacaagac ccgactggtc aaggttcagc tgtccaatga ctttgacgag
4741 tacatcatgg ccattgagca gaccatcaag tcaggctcgg atgaggtgca ggttggacag
4801 cagegeaegt teateageee cateaagtge agagaageee tgaagetgga ggagaagaaa
4861 cactacetca tgtggggtet etecteegat ttetggggag agaageecaa eeteagetae
4921 atcatcggga aggacacttg ggtggagcac tggcctgagg aggacgaatg ccaagacgaa
4981 gagaaccaga aacaatgcca ggacctcggc gccttcaccg agagcatggt tgtctttggg
5041 tgccccaact gaccacaccc ccattcc
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## (2) INFORMATION FOR SEQ ID NO:2668:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4199 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2668

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1 cgtgttgatg atggagtage tteetttgtg ettaatetee catetggagt gaeggtgetg
  61 qaqtttaatg tcaaaactga tgctccagat cttccagaag aaaatcaggc cagggaaggt
 121 taccgagcaa tagcatactc atctctcagc caaagttacc tttatattga ttggactgat
 181 aaccataagg ctttgctagt gggagaacat ctgaatatta ttgttacccc caaaagccca
 241 tatattgaca aaataactca ctataattac ttgattttat ccaagggcaa aattatccac
 301 tttggcacga gggagaaatt ttcagatgca tcttatcaaa gtataaacat tccagtaaca
 361 cagaacatgg ttccttcatc ccgacttctg gtctattata tcgtcacagg agaacagaca
 421 gcagaattag tgtctgattc agtctggtta aatattgaag aaaaatgtgg caaccagctc
 481 caggiticate tgictectga tgcagatgea tattetecag gecaaactgi gictettaat
 541 atggcaactg gaatggattc ctgggtggca ttagcagcag tggacagtgc tgtgtatgga
 601 gtccaaagag gagccaaaaa gcccttggaa agagtatttc aattcttaga gaagagtgat
 661 ctgggctgtg gggcaggtgg tggcctcaac aatgccaatg tgttccacct agctggactt
721 accttcctca ctaatgcaaa tgcagatgac tcccaagaaa atgatgaacc ttgtaaagaa
781 attctcaggc caagaagaac gctgcaaaag aagatagaag aaatagctgc taaatataaa
841 cattcagtag tgaagaaatg ttgttacgat ggagcctgcg ttaataatga tgaaacctgt
901 gagcagcgag ctgcacggat tagtttaggg ccaagatgca tcaaagcttt cactgaatgt
961 tgtgtcgtcg caagccagct ccgtgctaat atctctcata aagacatgca attgggaagg
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1261 tctgttgtac gaggagaaca gatccaattg aaaggaactg tttacaacta taggacttct
1321 gggatgcagt tctgtgttaa aatgtctgct gtggagggaa tctgcacttc ggaaagccca
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1381 gtcattgatc atcagggcac aaagtcctcc aaatgtgtgc gccagaaagt agagggctcc
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1681 gaaatcaaaa ggattttgag tgtaaaagga ctgcttgtag gtgagatctt gtctgcagtt
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3001 agggaagaat catcatctgg atcctctcat gcggtgatgg acatctcctt gcctactgga
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3301 tccaatatca aaattcagaa agtctgtgaa ggagccgcgt gcaagtgtgt agaagctgat
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3481 aatgtttttg tcaagtacaa ggcaaccctt ctggatatct acaaaactgg ggaagctgtt
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3961 aaatgctgta actttctgaa ataacatggc cttggagggc atgaagacag atactcctcc
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4081 atgtttgctg gggccgaaag aacagtccat tgaaagggag tattacaaaa acatggcctt
4141 tgcttgaaag aaaataccaa ggaacaggaa actgatcatt aaagcctgag tttgctttc
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- (2) INFORMATION FOR SEQ ID NO: 2669:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 5444 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2669
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  - 121 gaaaatattg tgattcaagt ttatggatac actgaagcat ttgatgcaac aatctctatt
  - 181 aaaagttatc ctgataaaaa atttagttac tcctcaggcc atgttcattt atcctcagag
  - 241 aataaattcc aaaactctgc aatcttaaca atacaaccaa aacaattgcc tggaggacaa
  - 301 aacccagttt cttatgtgta tttggaagtt gtatcaaagc atttttcaaa atcaaaaaga
  - 361 atgccaataa cctatgacaa tggatttctc ttcattcata cagacaaacc tgtttatact

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481	agagaaactg	tcttaacctt	catagatcct	gaaggatcag	aagttgacat	ggtagaagaa
541	attgatcata	ttggaattat	ctcttttcct	gacttcaaga	ttccgtctaa	tcctagatat
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901	gctcaagtca	catttgattc	tgaaacagca	gtcaaagaac	tgtcatacta	cagtttagaa
961	gatttaaaca	acaagtacct	ttatattgct	gtaacagtca	tagagtctac	aggtggattt
1021	tctgaagagg	cagaaatacc	tggcatcaaa	tatgtcctct	ctccctacaa	actgaatttg
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2281	ctattaccaa	taaggaaggg	agaaattaga	agttattttc	gaaggctaca	catgaagacc
2341	atteatetta	ttcccagaag	agaaacccgg	cagtttgccc	tagaaagetg	gregreggaa
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2521	gaacagatco	aattgaaagg	aactgtttac	aactatagga	cttctqqqat	acaattatat
2581	gttaaaatgt	ctactataga	gggaatctgc	acttcggaaa	acceateat	tgatcatcag
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3061	ccagtattct	atgtttttca	ctacctggaa	acaggaaatc	attggaacat	ttttcattct
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3781	accagtctga	acttgaaaga	tataaattat	gttaacccag	tcatcaaatg	gctatcagaa
3841	gagcagaggt	atggaggtgg	cttttattca	acccaggaca	ccatcaatgc	cattgagggc
39UI	ccgacggaat	attcactcct	ggttaaacaa	ctccgcttga	gtatggacat	cgatgtttct
396T	cacaagcata	aaggtgcctt	acataattat	aaaatgacag	acaagaattt	ccttgggagg
4021	gotagagg	atataataa	igatgacctc	attgtcagta	caggatttgg	cagtggcttg
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4681 attgcatatg cttataaagt tagcatcaca tccatcactg tagaaaatgt ttttgtcaag
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# (2) INFORMATION FOR SEQ ID NO:2670:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5444 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2670

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### (2) INFORMATION FOR SEQ ID NO:2671:

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(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2671 1 cgtgttgatg atggagtagc ttcctttgtg cttaatctcc catctggagt gacggtgctg 61 gagtttaatg tcaaaactga tgctccagat cttccagaag aaaatcaggc cagggaaggt 121 taccgagcaa tagcatactc atctctcagc caaagttacc tttatattga ttggactgat 181 aaccataagg ctttgctagt gggagaacat ctgaatatta ttgttacccc caaaagccca 241 tatattgaca aaataactca ctataattac ttgattttat ccaagggcaa aattatccac 301 tttggcacga gggagaaatt ttcagatgca tcttatcaaa gtataaacat tccagtaaca 361 cagaacatgg ttccttcatc ccgacttctg gtctattata tcgtcacagg agaacagaca 421 gcagaattag tgtctgattc agtctggtta aatattgaag aaaaatgtgg caaccagctc 481 caggiticate tgictectga tgcagatgca tattetecag gccaaactgi gictettaat 541 atggcaactg gaatggattc ctgggtggca ttagcagcag tggacagtgc tgtgtatgga 601 gtccaaagag gagccaaaaa gcccttggaa agagtatttc aattcttaga gaagagtgat 661 ctgggctgtg gggcaggtgg tggcctcaac aatgccaatg tgttccacct agctggactt 721 accttcctca ctaatgcaaa tgcagatgac tcccaagaaa atgatgaacc ttgtaaagaa 781 attctcaggc caagaagaac gctgcaaaag aagatagaag aaatagctgc taaatataaa 841 cattcagtag tgaagaaatg ttgttacgat ggagcctgcg ttaataatga tgaaacctgt 901 gagcagcgag ctgcacggat tagtttaggg ccaagatgca tcaaagcttt cactgaatgt 961 tgtgtcgtcg caagccagct ccgtgctaat atctctcata aagacatgca attgggaagg 1021 ctacacatga agaccetgtt accagtaage aagecagaaa tteggagtta ttttecagaa 1081 agctggttgt gggaagttca tcttgttccc agaagaaaac agttgcagtt tgccctacct 1141 gattetetaa eeacetggga aatteaagge attggeattt caaacaetgg tatatgtgtt 1201 gctgatactg tcaaggcaaa ggtgttcaaa gatgtcttcc tggaaatgaa tataccatat 1261 tctgttgtac gaggagaaca gatccaattg aaaggaactg tttacaacta taggacttct 1321 gggatgcagt tctgtgttaa aatgtctgct gtggagggaa tctgcacttc ggaaagccca 1381 gtcattgatc atcagggcac aaagtcctcc aaatgtgtgc gccagaaagt agagggctcc 1441 tecagteact tggtgacatt caetgtgett cetetggaaa ttggeettea caacateaat 1501 ttttcactgg agacttggtt tggaaaagaa atcttagtaa aaacattacg agtggtgcca 1561 gaaggtgtca aaagggaaag ctattctggt gttactttgg atcctagggg tatttatggt 1621 accattagca gacgaaagga gttcccatac aggataccct tagatttggt ccccaaaaca 1681 gaaatcaaaa ggattttgag tgtaaaagga ctgcttgtag gtgagatctt gtctgcagtt 1741 ctaagtcagg aaggcatcaa tatcctaacc cacctcccca aagggagtgc agaggcggag 1801 ctgatgagcg ttgtcccagt attctatgtt tttcactacc tggaaacagg aaatcattgg 1861 aacatttttc attctgaccc attaattgaa aagcagaaac tgaagaaaaa attaaaagaa 1921 gggatgttga gcattatgtc ctacagaaat gctgactact cttacagtgt gtggaagggt 1981 ggaagtgcta gcacttggtt aacagctttt gctttaagag tacttggaca agtaaataaa 2041 tacgtagagc agaaccaaaa ttcaatttgt aattetttat tgtggctagt tgagaattat 2101 caattagata atggatcttt caaggaaaat tcacagtatc aaccaataaa attacagggt 2161 accttgcctg ttgaagcccg agagaacagc ttatatctta cagcctttac tgtgattgga 2221 attagaaagg ctttcgatat atgccccctg gtgaaaatcg acacagctct aattaaagct 2281 gacaactttc tgcttgaaaa tacactgcca gcccagagca cctttacatt ggccatttct 2341 gcgtatgctc tttccctggg agataaaact cacccacagt ttcgttcaat tgtttcagct 2401 ttgaagagag aagctttggt taaaggtaat ccacccattt atcgtttttg gaaagacaat 2461 cttcagcata aagacagctc tgtacctaac actggtacgg cacgtatggt agaaacaact 2521 gcctatgctt tactcaccag tctgaacttg aaagatataa attatgttaa cccagtcatc 2581 aaatggctat cagaagagca gaggtatgga ggtggctttt attcaaccca ggacacaatc 2641 aatgccattg agggcctgac ggaatattca ctcctggtta aacaactccg cttgagtatg 2701 gacatcgatg tttcttacaa gcataaaggt gccttacata attataaaat gacagacaag 2761 aattteettg ggaggeeagt agaggtgett etcaatgatg aceteattgt eagtacagga 2821 tttggcagtg gcttggctac agtacatgta acaactgtag ttcacaaaac cagtacctct 2881 gaggaagttt gcagctttta tttgaaaatc gatactcagg atattgaagc atcccactac 2941 agaggctacg gaaactctga ttacaaacgc atagtagcat gtgccagcta caagcccagc 3001 agggaagaat catcatctgg atcctctcat gcggtgatgg acatctcctt gcctactgga 3061 atcagtgcaa atgaagaaga cttaaaagcc cttgtggaag gggtggatca actattcact 3121 gattaccaaa tcaaagatgg acatgttatt ctgcaactga attcgattcc ctccagtgat 3181 ttcctttgtg tacgattccg gatatttgaa ctctttgaag ttgggtttct cagtcctgcc 3241 actttcacag tgtacgaata ccacagacca gataaacagt gtaccatgtt ttatagcact 3301 tccaatatca aaattcagaa agtctgtgaa ggagccgcgt gcaagtgtgt agaagctgat 3361 tgtgggcaaa tgcaggaaga attggatctg acaatctctg cagagacaag aaaacaaaca

(A) LENGTH: 15087 base pairs

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		tggcattagc				
		tggaaagagt				
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## (2) INFORMATION FOR SEQ ID NO:2672:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 143068 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2672

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TOTAL GUGACLOC	uc igagetgag	t ctgaacccac	: cotocactor	r ttmaactcas	cataattaaa
TOTOLI GLUGICOL	cc igagagaat	g catctgacac	Lacacccacca	adddcaadto	· ++++c+aaaa
TOTOUT CLYaycaa	ge accadetet	a ataaacaaa	i adaataataa	· acadadcact	. uuuscscasa
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ggggaccccc	, ayuuaatti	u Luacetccc	: raacaccta	, aatcaccac	a aataaataa
#90001 glgcagcctt	- tyggttccc	c cadactecea	a coccearce	· cccantana	7 2244244
TOOUT agetgagete	Cucaccato	u ututeeeaa) ctaadttca:	antctaaaa	· +~~~~~~
138121 gggtaaatco	aggeceeg	g attcatccac	g gaggggtcct	ggctatctt	t gttcatgttc
138181 atgtttctca	a citaatayya	a ggcaaactga	tttttctgc	aggcctggg	g agcctgacgt
138241 gcactgatca	catcaaacci	a ctattettt	agagacacct	: gacctaatco	c acagaagaca
138301 ctcacactg	r daccadacci	t ccacgaigac	cccacagtgt	ctgggaaaa	g gagtgaccgc
138421 cctgggctca	ctcactttt	ctcaagtag	aayaccacac	caggcggac	c tcaggaccct
138481 acageccaga	atctatcct	cccaageee	. ggalggcagt	gaagtagcc	g gagccaaggt
138541 gcagatcttt	ctgcccacta	adddagcacca	agagetgga	aalggcagag	J teettgaaca
138601 caaacttttc	ctaattaaga	a aaaaatagaa	ttatoototo	: aataataaat	ttgtcctttc
	alylladada	i agagrateto	. gagetttggg	. atcattcta=	atasasas
TOO / ZI GAGCCCCCGGC	LUAUACCCEC	: CIGCAGAGGG	acttataca	+ a+ a ~ ~ ~ ~ ~	
-30701 Clargycica	Licitidaac	i aditiditaan	otccaagcac	cttagggggg	. +~~~~~++
goucegueeu		, CLUCLCCCAT	- сатаадасдс	tatesacces	r + ~ + ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
TOOTOT GAGELLCALL	gerrere	r tccacagtac	adoctadaca	agcagcccaa	+~~~+
TOODOT LYCLALCCIA	- caucaaaacr	acaddacttc	taasataaas	~~~~+~~~~	
TOOURT COLLEGEROOF	Luccccccat	. atccaadcaa	ataaaaaaaa	ccataaataa	
goolgglyga	yaayatttta	Luatuucaecc	TCCTTGCCat	tracacttac	+~~~~~~
TOSTIT GCacyagaag	ggaccccqqqc	: cadatddcad	totttdaact	tatecaetaa	ottoom
TOTE CEGECEGGGC	ayaytaactc	atactcotcc	Cfffcagcct	catatasasa	atactatas
TOPEOT GGGaaggiga	qquqqqaqqq	agtetagata	agccgactcc	aggagtaagg	+
139321 gttcccttc	cccctataga	attttgagct	tggggagata	gctgacaaaa	ctgagggtca
TOTOT Gadaggcagg	9911196166	adaacactca	gaaaggtaaa	aat satacca	aaaaaaa+-
139441 agggggcagc	cctaggigiga	Coccatoct	aaatcactta	ggccaccctg	gggttcccgt
139501 gcagctgctg 139561 ctgcctggaa	aagtcacttt	cagagaggcc	aaaccagacc	cgtctgtttc	tgcggcatct
139621 actcacatct	ctgggaagaa	taaaaatgac	gereaggggg	ccaccaaggg	ttgctccctt
139681 ggaaggtgag	acactttcca	acactgagta	tatcasasas	acaaggcagg	gaataaggca
139741 aatgagttca	ggcaaatgtg	gaatatcata	tataagttgc	ttcagaatgaa	rggttttatg
TOTOL addadtelly	Cocyaqueat	tttatgagat	tagtagagg	ttastatass	22+22-2
+00001 agtataggag	ggaagaatta	aaagtttatt	ttacttacca	acataaataa	2222+++
-00021 ducadegrac	Laactaactc	aatctcacad	agtatttaaa	2200t22t2	5 t t a a a a t
TOTOL aggiciacia	graracteca	ttaacaaaaa	aatooctoaa	catcaaaaaa	2012222
- 100 11 Cocycatica	acygcagaaa	accatgagar	catcttcatc	ttaataaata	02022000++
TIVIVI GULLALGUGE	Luadualita	tttatatata	attttttt	carceteres	22224244
- TO TOT Cayatayaat	CUULAAAUEE	ELLLLattra	ttttdadaca	anatatanat	~ + ~ + +
- TOEZI goolggaalg	Lagrage	atctcadctc	actoratort	ccatataata	~~~
140201 accounting	CLCadcctcc	caagtagctg	ddaccacaad	CCCSCCCCC	~~~~~~
TTOOTI CAALLELLIGE	attittaata	gagatggggt	ttcaccatat	+~~~~~	and the second second
140401 tectgacete	ctagagatas	cccgcctcag	tctcccaaag	tgctgggatt	acaggggtga
140461 gacaccacgc	raaraaaatr	tagacatta	tgataaatgc	cattaatcta	cagcaaaaac
140521 cttactaaaa 140581 cactgttaca	ataccaacac	aattetagat	ccgcaaaatc	aggaacaagg	caaggatgcc
140641 tgagatataa	acactageac	maaaaamana	acccagatca	cacaatttac	aaaagaaatg
140701 ctacaaaaaa	ccaatgaaac	Caacadaaac	taataaaaa	caaaaagatg	atatcgtcat
140761 ataagagcaa	cctacaaaaa	tcagatgtta	tecteattaa	actcagagga	gtaacaagtt
140821 atatggacta	taagatgtta	caatagcaac	taaaaccatt	caataaccaa	atagaaacca
140881 cccacaaga	cacatcagac	CCacaaagga	aaaattttag	ttatataaaa	taattagcct
TTOTE agaggigiga	LCdaatgggg	gagatttagc	atcaccataa	actegaaaaa	******
TTTOOT additacycly	attittcato	gaacaattta	aattcadtac	aattogaato	2222++222
TTTOOL CALGALLILL	LCCadaaatt	caacaaaata	atteteaaet	tttaaataaa	+ a + a + + + + + -
TTITE aayyaalaal	aaaqtqaqaq	aaaaaaaaa	actictictic	attetetete	+ ~ + + + - + -
TITIOT actiggities	LULULLICEC.	tccaccadat	antaanaccc	attaataaaa	00000to
addycayada	aaatucaaat	acaccaatga	aataaaataa	ctcacaaaat	
TTIOUT GALACACA	aacttagtgt	agaattggct	tracatator	C2C222224	~
caccacaaaa	LaaaLLUCC	Cacroraaaa	ののひつとっっっゃ	~~+~~~~~	
cgaccccca (yy cayaycac	alalaaaran .	ataaaaaaaa	aaatattaaa	~+~++~+++
aggadacaac	Latuattiuu	u Lu Luaanaa -	aaacatcttt	~~~~+~+~	
TITUIT UCCAACAAYY	Lyayyettat	ddatttdacc -	ttatcaatat	C22442+++	+~~+~~~
141601 agactaccgt	Lytcagattt	ttgactgaga .	agaggtttta	ctaaagttta	aaatcagcaa

141661 tagtttgata cctagataga aggaacttct gtccttgaat caaaatcatg cagaaacaag 141721 qtqtqaaact caatttaaaa aqtaqtcaaa tqtcacaaaa taagaaaggg aagcccaaac 141781 ggctagcaaa tatgttgaaa tgatcaaact caccagctgt cagagaaatg aaaattaaaa 141841 ataaaacgaa ctatctattg cattacaacc atcattcgga caaaaagtat gaaagtcaaa 141901 aatacttcta actgaagttg tggggaaatt agaacacttg cagagtgtca ttccagacag 141961 cagettggtg atcetgggtg catgtggggt etgtetetgg tggeeetggg tgeatgtgga 142021 ggtctgtttc tggtggcctc tgatgaatgc ggggtctgtc tctgatggtc ctaggtgaat 142081 gtgggtgttg tetetttete tggtggteet gggtggatgt ggggtgtgte tetgatggte 142141 ctgagtgaat gtgggtgtct gtcactttct ctagtggccc tgggtggaat atagtagccc 142201 tgtctctatt ggtcttgcat gaaatgtagt gagcttatgt ccactagtcc tgggtgcagt 142261 gtgtttagcc tctacatact catcaactgc tttattataa gtccaggagg gacgctgtcc 142321 agcaggtaag taaggaacac aggtgaaggt atcagtcgtg tggctgcatg tggtagagga 142381 aaagagagca caacctctgt ccatcactat ggtgacagag aagtaaaagg tggatgtatt 142441 ccacqqaaca ctcctcaact gttaggaccc ctgagctaga catgtataca acaataccga 142501 taaacctcta aaacaaaatg ctgagcagaa aacccaagta gcaggatttc taatgctcac 142561 taaaacctct atgaacccag aaaccggaaa cacaaaccag cacaatctgt tctgcatgag 142621 cacatgtgtc ttggaggact ggaggacgca ttgccaagca cctaggcatg ggtgtctatg 142681 aggggaagag aaaggcagta ggcacaggag gtttgaagaa aactgatcat ttaaaatatg 142741 aaagatcata aaatcagagc tgtgccctgt aggaatcttg aaaatggtct gccatgaact 142801 taggaatcta attagctcaa aggtcagagt catgatcaag taagataaaa ggggtcagta 142861 cccacggctc attaccctgc tcttaccaaa cactgtgctc tctctgataa aagccacgtc 142921 tocagococq tototoagac acctgtgaaa agagaaacca toaggggtaa gcacaggcag 142981 ccctccccag cccctccctg tggaacagta gccctggcac tcagcatcta tgggtttcta 143041 ctccctgcag ggcagggctc tgaagctt

(2) INFORMATION FOR SEQ ID NO:2673:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2673

1 gagctcagaa attcaagacc agcctgggca aggtagagag acccccatgt ctacaaaaaa 61 taaaaaatga ttagtcaggt gtggtggccc gcacctgtag ttccagctac tcaggacgct 121 gaggtgggag aatgactcga gcccgtgagt tgaggctgca gtgagccgag atcacaccac 241 aaccatcaaa atgttttgca cagcagtcac gccattttac atttctgcca gcaatgtgca 301 ccaggettee agtttettea catetteact aactettatt teetttgett taaactetaa 361 ccatcaaagt aggtgtaaag ggtatctcac tgtggtttga tttgcatttc tctaatgact 421 aataqtqtta aqtatcattt catqtqcatq ttqqccattt atatqtcatt ggagaaatqt 481 ctactcaaac cgtttgctca tttagaaact taggtaggtt ggtctgagtg cagtggtgtt 541 taaaactaat ttttttttga gacaaagtct cactctgtcg cccaggctgg aatgcaatgg 601 tgagatettg geteactaca acctecatet eetgggttea ageaattett etgeeteage 661 ctctcaagta gctgggatta caggcatgcg ccaccacgcc tggctaattt ttgtattttt 721 ggtagagacg ggggtttctc catgttggcc aggctggtct cgaactcttg acctcaggtg 781 atccacctgc ctcggcctcc acagggctag gattagaggt gtgagccacc gcaccaggcc 841 gtttaaaact aatggagcac aaccagttac caatatettt gtteettete caeteeetet 901 gcttcaactt gactagccta aaataaataa atttaaaaaa ctgggcacag tggctcacac 961 ctgtaatccc agcactttgg gaggccgagg caggaggatt acttgagcat aggagttcaa 1021 gatcagcctg ggcaactagt gaaaaaccat ctcaaaaaag aaaaattagc caggcatggt 1081 ggcatgcacc tgtggtttca gctacttaga gcagaggtgg aggatcgctt gattctggag 1141 ttcaaggttg cattgagctg tgatcgcgcc agtgcactct cgcttgggtg acagagtaag 1201 accttgtctc aaaaaattta aaacaaaaca aaaaaaactg gttatttgtc tttttattgg 1261 tgaattataa gagttttaaa aaatatattc tggaaacaaa tcccttatta gagatatgat 1321 ttgcaaatat tttctccaat ttttttttt tttaaagaca aagtttcact ttgtcgccca 1381 ggctggtctt gattcctggc ttcaagagat gctcttacct ccacctcctg aagcccaaag 1441 ggctggaatt acagccagtg agcctgcacc cagcctccaa ttctttagat tttacatttt 1501 agaaccaaaa tgggttaaat acactgttct gtaatctgct cttttcttta atagtagttc 1561 atgtacatct ttcaaggtcc agagaaagct ctcactttct ccccgtttta tttttccttc 1621 cctcattctt tttcactgct gcatagcatt ccattgtaat tttgccactg tttattagac 1681 cagtcctctg ctgagcttta cagagccctt agttggatgt tagtgagaac catgacagca 1741 gtgagactgt catctccctg acatgctgtc agcttttgga tgatgtgaaa atgcaagcag 1801 gcacaggaaa tgtctctaac ttgcttacac ttcctccctg aaccctgcgg tttcacaact 1861 cctgcaggca cacctccctc cccgcctgcc agtgtcacca gcctgttgcc tctgtgagaa

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1921 agtaccactg taagaggcca aagggcatga tcatttcct ctttcaccct gtctaggttg
1981 ccagcaaatc ccacgggct cctgacgctg cccctggggc cacaggtccc tcgagtgctg
2041 gaaggatgaa ggattcctgc atcactgtga tggccatggc gctgctgtct gggttctttt
2101 tcttcggtag gcaagggagg aggcagggga agggacatgt gtctgtgacc agagaaactg
2161 cagggcttgg tgcagctgga gtaaacaagg agctgcccc taaaagtggg attggcctta
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(2) INFORMATION FOR SEQ ID NO: 2674:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1520 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2674

```
1 gatettgget cactacaacc tecatetggt gggttcaage aattettetg ceteageete
  61 tcaagtaget gggattacag geatgegeea ceaegeeegg etaatttttg tatttttggt
 121 agagacgggg gtttctccat gttggccagg ctggtctcga actcttgacc tcaggtgatc
 181 cacctgcctc ggcctcccac aggctaggat tagaggtgtg agccaccgca ccaggccgtt
 241 taaaactaat ggaqcacaac caqttaccaa tatctttgtt ccttctccac tccctctgct
 301 tcacttgact agcctaaaat aaataaattt aaaaaactgg gcacagtggc tcacacctgt
 361 aatcccaqca ctttqqqaqq ccqaqqcaqq aqqattactt qaqcataqqa qttcaagatc
 421 agcctgggca acatagtgaa aaaccatctc aaaaaagaaa aaattagcca ggcatggtgg
 481 catgcacctg tgqtttcagc tacttaggag cagaggtggg aggatcgctt gattctggga
 541 qttcaaqqtt qcattqaqct qtqatcqcqc caqtqcactc tcqcttqqqt qacaqaqcaa
 601 gaccttqtct caaaaaattt aaaacaaaac aaaaaaaact ggttatttgt ctttttattg
 661 ttgaattata agagttttaa aaaatatatt ctggaaacaa atcccttatt agagatatga
 721 tttqcaaata ttttctccaa ttttttttt tttaaaqaca aagtttcact ttqgtqccca
 781 ggctggtctt cattcctggc ttcaagagat gctcttacct ccacctcctg aagccccaaa
 841 gggctggaat tacagccagt gagccactgc acccagcctc caattettta gattttacat
 901 tttagaacca aaatgggtta aatacactgt tctgtaatct gctcttttct ttaatagtag
 961 ttcatgtaca tctttcaagg tccagagaaa gctctcactt tctccccgtt ttatttttcc
1021 ttccctcatt ctttttcact gctgcatagc attccattgt aattttgcca ctgtttatta
1081 qaccagtcct ctqctqaqct ttacaqagcc cttagttggg atgttagtga gaaaccatga
1141 cagcagtgga gactgtcatc tccctgacat gctgtcagct tttggatgat gtgaaaatgc
1201 aagcaggcac aggaaatgtc tctctaactt gcttacactt cctccctgaa ccctgcggtt
1261 tcacaactcc tgcaggcaca cctccctccc cgcctgccag tgtcaccagc ctgttgcctc
1321 tgtgagaaag taccactgta agaggccaaa gggcatgatc attttcctct ttcaccctgt
1381 ctaggttgcc agcaaatccc acgggcctcc tgacgctgcc cctggggcca caggtccctc
1441 gagtgctgga aggatgaagg attcctgcat cactgtgatg gccatggcgc tgctgtctgg
1501 gttctttttc ttcggtaggc
```

(2) INFORMATION FOR SEQ ID NO:2675:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2776 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2675

1 cagggcagac tggtagcaaa gccccaacgc ccagccagga gcaccgccg ggactccagc 61 acaccgaggg acatgctggg cctgcgccc ccactgctcg ccctggtggg gctgctccc 121 ctcgggtgg tcctctca ggagtgcacg aagttcaagg tcagcagctg ccggggaatgc 181 atcgagtcgg ggcccggctg cacctggtgc cagaagctga acttcacagg gccgggggat 241 cctgactca ttcgctgcga cacccggcca cagctgctca tgaggggctg tgcggggaatgc 301 gacatcatgg accccaaag cctcgctgaa acccaagaag accacaatgg gggccagaag 361 cagctgtcc cacaaaaagt gacgetttac ctgcgaccag gccaggcagc agcgttcaac 421 gtgaccttcc ggcgggcaa gggctaccc atcgaccag gccaggcagc agcgttcaac 421 tactccatgc ttgatgacct caggaatgtc aagaagctag gtggcgacct gctccgggcc 541 ctcaacgaga tcaccgagtc cggccgcatt ggcttcgggt ccttcgtgga caagaccgtg 601 ctgccgttcg tgaacacgca ccctgataag ctgcgaaacc catgcccaa caaggagaaa 661 gagtgccagc ccccgtttgc cttcaggcac gtgctgaagc tgaccaacaa ctccaaccag 721 ttcagaccg aggtcgggaa gcagctgatt tccggaaacc tggatgcacc cgagggtggg ctggctgctgc tgatgcacc tgatgcacc tgatgcacc tgatgcacca tgatgcagg tgtttgcac tgatgacggc ttccattcc caggaggaaa tcggctgctg tgtttgcac tgatgacggc ttccattcg cgggggaggg aaagctggg

1%



901 gccatcctga cccccaacga cggccgctgt cacctggagg acaacttgta caagaggagc 961 aacgaattcg actacccatc ggtgggccag ctggcgcaca agctggctga aaacaacatc 1021 cagcccatct tcgcggtgac cagtaggatg gtgaagacct acgagaaact caccgagatc 1081 atccccaagt cagccgtggg ggagctgtct gaggactcca gcaatgtggt ccatctcatt 1141 aagaatgett acaataaact eteeteeagg gtetteetgg ateacaaege eeteeeegae 1201 accetgaaag teacetaega eteettetge ageaatggag tgaegeaeag gaaceageee 1261 agaggtgact gtgatggcgt gcagatcaat gtcccgatca ccttccaggt gaaggtcacg 1321 gccacagagt gcatccagga gcagtcgttt gtcatccggg cgctgggctt cacggacata 1381 gtgaccgtgc aggttcttcc ccagtgtgag tgccggtgcc gggaccagag cagagaccgc 1441 agcctctgcc atggcaaggg cttcttggag tgcggcatct gcaggtgtga cactggctac 1501 attgggaaaa actgtgagtg ccagacacag ggccggagca gccaggagct ggaaggaagc 1561 tgccggaagg acaacaactc catcatctgc tcagggctgg gggactgtgt ctgcgggcag 1621 tgcctgtgcc acaccagcga cgtccccggc aagctgatat acgggcagta ctgcgagtgt 1681 gacaccatca actgtgagcg ctacaacggc caggtctgcg gcggcccggg gagggggctc 1741 tgcttctgcg ggaagtgccg ctgccacccg ggctttgagg gctcagcgtg ccagtgcgag 1801 aggaccactg agggctgcct gaacccgcgg cgtgttgagt gtagtggtcg tggccggtgc 1861 cgctgcaacg tatgcgagtg ccattcaggc taccagctgc ctctgtgcca ggagtgcccc 1921 ggctgcccct caccetgtgg caagtacatc teetgegeeg agtgcetgaa gttegaaaag 1981 ggcccctttg ggaagaactg cagcgcggcg tgtccgggcc tgcagctgtc gaacaacccc 2041 gtgaagggca ggacctgcaa ggagagggac tcagagggct gctgqqtqqc ctacacqctq 2101 gagcagcagg acgggatgga ccgctacctc atctatgtgg atgagagccg agagtgtgtg 2161 gcaggcccca acategeege categteggg ggcacegtgg caggcategt getgategge 2221 attetectge tggtcatetg gaaggetetg atceacetga gegaceteeg ggagtacagg 2281 cgctttgaga aggagaagct caagtcccag tggaacaatg ataatcccct tttcaagagc 2341 gccaccacga cggtcatgaa ccccaagttt gctgagagtt aggagcactt ggtgaagaca 2401 aggccgtcag gacccaccat gtctgcccca tcacgcggcc gagacatggc ttggccacag 2461 ctcttgagga tgtcaccaat taaccagaaa tccagttatt ttccgccctc aaaatgacag 2521 ccatggccgg ccggtgcttc tggggggctcg tcggggggac agctccactc tgactggcac 2581 agtetttgea tggagaettg aggagggett gaggttggtg aggttaggtg egtgttteet 2641 gtgcaagtca ggacatcagt ctgattaaag gtggtgccaa tttatttaca tttaaacttg 2701 tcagggtata aaatgacatc ccattaatta tattgttaat caatcacgtg tatagaaaaa 2761 aaaataaaac ttcaat

(2) INFORMATION FOR SEQ ID NO: 2676:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2291 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2676
- 1 ctcgccctgg tggggctgct ctccctcggg tgcgtcctct ctcaggagtg cacgaagttc 61 aaggtcagca gctgccggga atgcatcgag tcggggcccg gctgcacctg gtgccagaag 121 ctgaacttca cagggccggg ggatcctgac tccattcgct gcgacacccg gccacagctg 181 ctcatgaggg gctgtgcggc tgacgacatc atggacccca caagcctcgc tgaaacccag 241 gaagaccaca atgggggcca gaagcagctg tccccacaaa aagtgacgct ttacctgcga 301 ccaggccagg cagcagcgtt caacgtgacc ttccggcggg ccaagggcta ccccatcgac 361 ctgtactatc tgatggacct ctcctactcc atgcttgatg acctcaggaa tgtcaagaag 421 ctaggtggcg acctgctccg ggccctcaac gagatcaccg agtccggccg cattgqcttc 481 gggtccttcg tggacaagac cgtgctgccg ttcgtgaaca cgcaccctqa taaqctqcqa 541 aacccatgcc ccaacaagga gaaagagtgc ccgccccgt ttgccttcag gcacgtgctg 601 aagctgacca acaactccaa ccagtttcag accgaggtcg ggaagcagct gatttccgga 661 aacctggatg cacccgaggg tgggctggac gccatgatgc aggtcqccqc ctqcccqqaq 721 gaaatcggct ggcgcaacgt cacgcggctg ctggtgtttg ccactgatga cggcttccat 781 ttcgcgggcg acggaaagct gggcgccatc ctgacccca acgacggccg ctgtcacctq 841 gaggacaact tgtacaagag gagcaacgaa ttcgactacc catcggtggg ccagctggcg 901 cacaagetgg ctgaaaacaa catccagece atettegegg tgaccagtag gatggtgaag 961 acctacgaga aactcaccga gatcatcccc aagtcagccg tgggggagct gtctgaggac 1021 tocagcaatg tggtccatct cattaagaat gcttacaata aactctcctc cagggtcttc 1081 ctggatcaca acgccctccc cgacaccctg aaagtcacct acgactcctt ctgcaqcaat 1141 ggagtgacgc acaggaacca gcccagaggt gactgtgatg gcgtgcagat caatgtcccg 1201 atcaccttcc aggtgaaggt cacggccaca gagtgcatcc aggagcagtc gtttgtcatc 1261 cgggcgctgg gcttcacgga catagtgacc gtgcaggtcc ttccccagtg tgagtgccgg

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1321 tgccgggacc agagcagaga ccgcagcctc tgccatggca agggcttctt ggagtgcggc
1381 atctgcaggt gtgacactgg ctacattggg aaaaactgtg agtgccagac acagggccgg
1441 agcagccagg agctggaagg aagctgccgg aaggacaaca actccatcat ctgctcaggg
1501 ctgggggact gtgtctgcgg qcaqtqcctq tqccacacca qcqacqtccc cqqcaaqctq
1561 atatacgggc agtactgcga gtgtgacacc atcaactgtg agcgctacaa cggccaggtc
1621 tgcggcggcc cggggagggg gctctgcttc tgcgggaagt gccgctgcca cccgggcttt
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- (2) INFORMATION FOR SEQ ID NO: 2677:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8864 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2677
- 1 gageteagaa atteaagace ageetgggea aggtagagag acceecatgt etacaaaaaa 61 taaaaaatga ttagtcaggt gtggtggccc gcacctgtag ttccagctac tcaggacgct 121 gaggtgggag aatgactcga gcccgtgagt tgaggctgca gtgagccgag atcacaccac 241 aaccatcaaa atgttttgca cagcagtcac gccattttac atttctgcca gcaatgtgca 301 ccaggettee agtttettea catetteact aactettatt teetttgett taaactetaa 361 ccatcaaagt aggtgtaaag ggtatctcac tgtggtttga tttgcatttc tctaatgact 421 aatagtgtta agtatcattt catgtgcatg ttggccattt atatgtcatt ggagaaatgt 481 ctactcaaac cgtttgctca tttagaaact taggtaggtt ggtctgagtg cagtggtgtt 541 taaaactaat ttttttttga gacaaagtct cactctgtcg cccaggctgg aatgcaatgg 601 tgagatettg geteactaca acctecatet cetgggttea ageaattett etgeeteage 661 ctctcaagta gctgggatta caggcatgcg ccaccacgcc tggctaattt ttgtatttt 721 ggtagagacg ggggtttctc catgttggcc aggctggtct cgaactcttg acctcaggtg 781 atccacctgc ctcggcctcc acagggctag gattagaggt gtgagccacc gcaccaggcc 841 gtttaaaact aatggagcac aaccagttac caatatettt gtteettete caeteeetet 901 gcttcaactt gactagccta aaataaataa atttaaaaaa ctgggcacag tggctcacac 961 ctgtaatccc agcactttgg gaggccgagg caggaggatt acttgagcat aggagttcaa 1021 gatcagcctg ggcaactagt gaaaaaccat ctcaaaaaag aaaaattagc caggcatggt 1081 ggcatgcacc tgtggtttca gctacttaga gcagaggtgg aggatcgctt gattctggag 1141 ttcaaggttg cattgagctg tgatcgcgcc agtgcactct cgcttgggtg acagagtaag 1201 accttgtctc aaaaaattta aaacaaaaca aaaaaaactg gttatttgtc tttttattgg 1261 tgaattataa gagttttaaa aaatatattc tggaaacaaa tcccttatta gagatatgat 1321 ttgcaaatat tttctccaat ttttttttt tttaaagaca aagtttcact ttgtcgccca 1381 ggctggtctt gattcctggc ttcaagagat gctcttacct ccacctcctg aagcccaaag 1441 ggctggaatt acagccagtg agcctgcacc cagcctccaa ttctttagat tttacatttt 1501 agaaccaaaa tgggttaaat acactgttct gtaatctgct cttttcttta atagtagttc 1561 atgtacatct ttcaaggtcc agagaaagct ctcactttct ccccgtttta tttttccttc 1621 cctcattctt tttcactgct gcatagcatt ccattgtaat tttgccactg tttattagac 1681 cagtcctctg ctgagcttta cagagccctt agttggatgt tagtgagaac catgacagca 1741 gtgagactgt catctccctg acatgctgtc agcttttgga tgatgtgaaa atgcaagcag 1801 gcacaggaaa tgtctctaac ttgcttacac ttcctccctg aaccctgcgg tttcacaact 1861 cctgcaggca cacctccctc cccgcctgcc agtgtcacca gcctgttgcc tctgtgagaa 1921 agtaccactg taagaggcca aagggcatga tcattttcct ctttcaccct gtctaggttg 1981 ccagcaaatc ccacgggcct cctgacgctg cccctggggc cacaggtccc tcgaqtgctg 2041 gaaggatgaa ggattcctgc atcactgtga tggccatggc gctgctgtct gggttctttt 2101 tcttcggtag gcaagggagg aggcagggga agggacatgt gtctgtgacc agagaaactg 2161 cagggcttgg tgcagctgga gtaaacaagg agctgcccc taaaagtggg attggcctta

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		agggctgcct				
		tatgcgagtg				
		caccctgtgg				
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2281 agttaggagc a
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- (2) INFORMATION FOR SEQ ID NO:2678:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1539 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2678
 - 1 ggaattccgg gcccggtctt tcctcccgcc gccgccggcc tggtcccggg gactggcctc
 - 61 cacgtccgac tcgtccgagc tgaagcccag cagcactttg ctgccagccg cgggggggc
 - 121 ggaggcgccc ccgggccctc ccaggaggct ctctgggcca gaggccgaga ttcggcacag

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(2) INFORMATION FOR SEQ ID NO:2679:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1550 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2679

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(2) INFORMATION FOR SEQ ID NO:2680:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3089 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2680 1 ggaatteegg geeeggtett teeteeegee geegeeggee tggteeeggg gaetggeete 61 cacgteegae tegteegage tgaageecag cageaetttg etgeeageeg egggggegge 121 ggaggcgccc ccgggccctc ccaggaggct ctctgggcca gaggccgaga ttcggcacag 181 gcccccagga gtccgtaagt aggagaggtc gcccgagacc ggccggaccc ccatccccgc 241 ggccgccgcc gccgctggtc ccgcggctgc gaccgtggcg gctgccgctg gaaaatgtct 301 caggagaggc ccacgttcta ccggcaggag ctgaacaaga caatctggga ggtgcccgag 361 cgttaccaga acctgtctcc agtgggctct ggcgcctatg gctctgtgtg tgctgctttt 421 gacacaaaaa cggggttacg tgtggcagtg aagaagctct ccagaccatt tcagtccatc 481 attcatgcga aaagaaccta cagagaactg cggttactta aacatatgaa acatgaaaat 541 gtgattggtc tgttggacgt ttttacacct gcaaggtctc tggaggaatt caatgatgtg 601 tatctggtga cccatctcat gggggcagat ctgaacaaca ttgtgaaatg tcagaagctt 661 acagatgacc atgttcagtt ccttatctac caaattctcc gaggtctaaa gtatatacat 721 tcagctgaca taattcacag ggacctaaaa cctagtaatc tagctgtgaa tgaagactgt 781 gagctgaaga ttctggattt tggactggct cggcacacag atgatgaaat gacaggctac 841 gtggccacta ggtggtacag ggctcctgag atcatgctga actggatgca ttacaaccag 901 acagttgata tttggtcagt gggatgcata atggccgagc tgttgactgg aagaacattg 961 tttcctggta cagaccatat tgatcagttg aagctcattt taagactcgt tggaacccca 1021 ggggctgagc ttttgaagaa aatctcctca gagtctgcaa gaaactatat tcagtctttg 1081 actcagatgc cgaagatgaa ctttgcgaat gtatttattg gtgccaatcc cctggctgtc 1141 gacttgctgg agaagatgct tgtattggac tcagataaga gaattacagc ggcccaagcc 1201 cttgcacatg cctactttgc tcagtaccac gatcctgatg atgaaccagt ggccgatcct 1261 tatgatcagt cctttgaaag cagggacctc cttatagatg agtggaaaag cctgacctat 1321 gatgaagtca tcagctttgt gccaccaccc cttgaccaag aagagatgga gtcctgagca 1381 cctggtttct gttctgttga tcccacttca ctgtgagggg aaggcctttt cacgggaact 1441 ctccaaatat tattcaagtg cctcttgttg cagagatttc ctccatggtg gaagggggtg 1501 tgcgtgcgtg tgcgtgcgtg ttagtgtgtg tgcatgtgt 1 tggttaacgc cagggttttc ccagtcacga acgttgtaaa acgacggcca gtgccaagct 61 aaaattaacc ttcactaaag ggaataagct tgcggccgct tcgggtttcc ggaggggccg 121 gagggcgggc gagggcgtca cgtgcgcgcc gcccgcgggc cggttggtcc ccggggggg 181 gaggggccgt gcgcagcctg ggtcggggtc gggccggggt cggcacctgg gacatccctg 301 gcggcgcgga gccggcccga ggcgcgcgc gagggagccc cgtccccggt cgtgggggca 361 ccgcccgcag gctctgcggg gtgggcagct cccgggcctg ccatgagctc tccgccgccc 421 gcccgcagtg gcttttaccg ccaggaggtg accaagacgg cctgggaggt gcgccgtg 481 taccgggacc tgcagcccgt gggctcgggc gcctacggcg cggtgtgctc ggccgtggac 541 ggccgcaccg gcgctaaggt ggccatcaag aagctgtatc ggcccttcca gtccgagctg 601 ttcgccaagc gcgcctaccg cgagctgcgc ctgctcaagc acatgcgcca cgagaacgtg 661 atcgggctgc tggacgtatt cactcctgat gagaccctgg atgacttcac ggacttttac 721 ctggtgatgc cgttcatggg caccgacctg ggcaagctca tgaaacatga gaagctaggc 781 gaggaccgga tccagttcct cgtgtaccag atgctgaagg ggctgaggta tatccacgct 841 gccggcatca tccacagaga cctgaagccc ggcaacctgg ctgtgaacga agactgtgag 901 ctgaagatcc tggacttcgg cctggccagg caggcagaca gtgagatgac tgggtacgtg 961 gtgacccggt ggtaccgggc tcccgaggtc atcttgaatt ggatgcgcta cacgcagacg 1021 gtggacatct ggtccgtggg ctgcatcatg gcggagatga tcacaggcaa gacgctgttc 1081 aagggcagcg accacctgga ccagctgaag gagatcatga aggtgacggg gacgcctccg 1141 gctgagtttg tgcagcggct gcagagcgat gaggccaaga acaacatgaa gggcctcccc 1201 gaattggaga agaaggattt tgcctctatc ctgaccaatg caagccctct ggctgtgaac 1261 ctcctggaga agatgctggt gctggacgcg gagcagcggg tgacggcagg cgaggcgctg 1321 gcccatccct acttcgagtc cctgcacgac acggaagatg agccccaggt ccagaagtat 1381 gatgactcct ttgacgacgt tgaccgcaca ctggatgaat ggaagcgtgt tacttacaaa 1441 gaggtgctca gcttcaagcc tccccggcag ctgggggcca gggtctccaa ggagacgcct 1501 ctgtgaagat ctctgggctc cggggtggca gtgaggacca ccttcacctt

(2) INFORMATION FOR SEQ ID NO:2681:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2681

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1 ctcgatcaaa ccttttttt atggtacaca atagtcacag tacttttcca tataaaacag
   61 gtttagtggt cttaatttag tttggcacat ttaatacact cccatgacca gcatcccaaa
  121 tgtacctatc cgttttattt tattgtctca gaattgtcag ttatttaata aattatgtaa
  181 cttttttcct tatgctcaga tttgcacttc tttctaaaac tctgcccatc cttaaagtcc
  241 cagattetee ttgaactttt ttttttgaet ttecaagtae atggaactet teaetetate
 301 ctgctatata aggtgacaga atttccacta tgggatagat ggagttcaat tcctttgagt
 361 ttaaaataat ctaaatataa ttattcctta tgccctgttt ttccctcact tttgtatcca
 421 aatctctttt cagacaacag aacaattaat gtctgataag gaagacaatg atgatgatca
 481 cttcaaaatg aattcaggat tgtaatgtaa aattttagta ctctctcaca gtatggattc
 541 taacatggct tctaacccaa actaacatta gtagctctaa ctataaactt caaatttcag
 601 tagatgcaac ctactccttt aaaatgaaac agaagattga aattattaaa ttatcaaaaa
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 781 attttaggca tccgtgtctc atgaggaatc agttgtgtca ctaggcaaaa cagtaaaaaa
 841 aaaaacctcc aagtgagtct cttatttatt tttttcttat aagacttcta caaattgagg
 901 tacctggtgt agttttattt caggttttat gctgtcattt tcctgtaatg ctaaggactt
 961 aggacataac tgaattttct attttccact tcttttctgg tgtgtgtgta tatatatatg
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1081 ctccctgagc actacccatg atagatgtta aacaaaagca aagatgaaat tccaactgtc
1141 aaaatccccc ctccatctaa ttaatccctc acccaactat gttccaaaac gagaatagaa
1201 aattagcccc aataagccca ggcaactgaa aagtaaatgc tatgttgtac tttgatccat
1261 ggtcacaact cataatcttg gaaaagtgga cagaaaagac aaaagagtga actttaaaac
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1381 agggagagaa atgccttaag gcatacgttt tggacattta gcgtccctgc aaattctggc
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1501 tcacattaac tatttacagg gtaactgctt aggaccagta ttatgaggag aatttacctt
1561 tecegeetet ettteeaaga aacaaggagg gggtgaaggt aeggagaaca gtatteete
1621 tgttgaaagc aacttagcta caaagataaa ttacagctat gtacactgaa ggtagctatt
1681 tcattccaca aaataagagt tttttaaaaa gctatgtatg tatgtgctgc atatagagca
1741 gatatacagc ctattaagcg tcgtcactaa aacataaaac atgtcagcct ttcttaacct
1801 tactcgcccc agtctgtccc gacgtgactt cctcgaccct ctaaagacgt acagaccaga
1861 cacggcggcg gcggcgggag aggggattcc ctgcggcccc ggacctcagg gccgctcaga
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1981 agtccacaac tggctctcgg aagcactcgg gcaaagactg cgaagaagaa aagacatctg
2041 gcggaaacct gtgcgcctgg ggcggtggaa ctcggggagg agagggaggg atcagacagg
2101 agagtgggga ctaccccctc tgctcccaaa ttggggcagc ttcctgggtt tccgatttc
2161 tcatttccgt gggtaaaaaa ccctgccccc accggcttac gcaattttt taaggggaga
2221 ggagggaaaa atttgtgggg ggtacgaaaa ggcggaaaga aacagtcatt tcgtcacatg
2281 ggcttggttt tcagtcttat aaaaaggaag gttctctcgg ttagcgacca attgtcatac
2341 gacttgcagt gagcgtcagg agcacgtcca ggaactcctc agcagcgcct ccttcagctc
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- (2) INFORMATION FOR SEQ ID NO:2682:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3387 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2682

1 gtccaggaac tcctcagcag cgcctcttc agctccacag ccagacgcc tcagacagca 61 aagcctaccc ccgcgccgc ccctgccgc cgctgcgatg ctcgcccgc ccctgctgct 121 gtgcgcggtc ctggcgctca gccatacagc aaatccttgc tgttcccacc catgtcaaaa 181 ccgaggtgta tgtatgagtg tgggatttga ccagtataag tgcgattgta cccggacagg 241 attctatgga gaaaactgct caacaccgga atttttgaca agaataaaat tattctgaa 301 acccactcca aacacagtgc actacatct taccacttc aagggatttt ggaacgttgt 361 gaataacatt cccttccttc gaaatgcaat tatgagttat gtgttgacat ccagtacaca 421 tttgattgac agtccaccaa cttacaatgc tgactatggc tacaaaaagct gggaagcctt 481 ctctaacctc tcctattata ctagagccct tcctccttg cctgatgat gccgactcc 541 cttggtgtc aaaggtaaaa agcagcttc tgattcaaat gagattgtgg gaaaattgct 601 tctaagaaga aagttcatcc ctgatccca gggctcaaac atgatgttg cattcttgc 661 ccagcacttc acgcatcagt ttttcaagac agatcataag cgagggccag ctttcaccaa 721 cgggctggc catggggtgg acttaaatca tattaccgg gaaactctgg gaaagtgta

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841 tcctcccaca gtcaaagata ctcaggcaga gatgatctac cctcctcaag tccctgagca
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 961 cacaatctgg ctgagggaac acaacagagt atgcgatgtg cttaaacagg agcatcctga
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1081 gattgtgatt gaagattatg tgcaacactt gagtggctat cacttcaaac tgaaatttga
1141 cccagaacta cttttcaaca aacaattcca gtaccaaaat cgtattgctg ctgaatttaa
1201 caccetetat cactggcate ceettetgee tgacacettt caaatteatg accagaaata
1261 caactatcaa cagtttatct acaacaactc tatattgctg gaacatggaa ttacccagtt
1321 tgttgaatca ttcaccaggc aaattgctgg cagggttgct ggtggtagga atgttccacc
1381 cgcagtacag aaagtatcac aggcttccat tgaccagagc aggcagatga aataccagtc
1441 ttttaatgag taccgcaaac gctttatgct gaagccctat gaatcatttg aagaacttac
1501 aggagaaaag gaaatgtctg cagagttgga agcactctat ggtgacatcg atgctgtgga
1561 gctgtatcct gcccttctgg tagaaaagcc tcggccagat gccatctttg gtgaaaccat
1621 ggtagaagtt ggagcaccat tctccttgaa aggacttatg ggtaatgtta tatgttctcc
1681 tgcctactgg aagccaagca cttttggtgg agaagtgggt tttcaaatca tcaacactgc
1741 ctcaattcag tctctcatct gcaataacgt gaagggctgt ccctttactt cattcagtgt
1801 tecagateca gageteatta aaacagteae cateaatgea agttetteee geteeggaet
1861 agatgatatc aatcccacag tactactaaa agaacgttcg actgaactgt agaagtctaa
1921 tgatcatatt tatttattta tatgaaccat gtctattaat ttaattattt aataatattt
1981 atattaaact ccttatgtta cttaacatct tctgtaacag aagtcagtac tcctgttgcg
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2521 cttgtacata taccaaaaag aagctgtctt ggatttaaat ctgtaaaatc agatgaaatt
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2701 tggtggagcc actgcagtgt tatctcaaaa taagaatatc ctgttgagat attccagaat
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2941 tttgctatga ggttaatgaa gtaccaagct gtgcttgaat aacgatatgt tttctcagat
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3241 ttttgtttta ctagttttaa gatcagagtt cactttcttt ggactctgcc tatattttct
3301 tacctgaact tttgcaagtt ttcaggtaaa cctcagctca ggactgctat ttagctcctc
3361 ttaagaagat taaaaaaaa aaaaaag
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(2) INFORMATION FOR SEQ ID NO:2683:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9453 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2683

1 gagctcacat taactatta cagggtaact gcttaggace agtattaga ggagaattta
61 cctttccgc ctctcttcc aagaaacaag gaggggtga aggtacggag aacagtattt
121 cttctgttga aagcaactta gctacaaaga taaattacag ctatgtacac tgaaggtagc
181 tattcattc cacaaaataa gagttttta aaaagctatg tatgtatgtg ctgcatatag
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301 accttactcg ccccagtctg tcccgacgtg acttcctcga ccctctaaag acgtacagac
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661 tttctcatt	t ccgtgggtaa	a aaaaccctgo	cccaccggg	cttacgcaat	: ttttttaagg
/21 ggagaggag	g gaaaaaattt	: gtggggggt	acgaaaaggc	ggaaagaaac	agtcattcac
781 atgggcttg	g ttttcagtct	: tataaaaago	aaggttctct	caattaacaa	ccaattotca
841 tacgacttg	c agtgagcgtc	: aggagcacgt	ccaggaactc	ctcagcagco	rectecticad
901 ctccacagc	c agacgccctc	agacagcaaa	gectacece	acaccacaca	ctacccacca
961 ctcggatgc	t cgcccgcgcc	ctactactat	gcacaatcct	ggcgct.cagc	: catacadata
1021 agtacctgg	c gccgcgcacc	gggactcc	gttccacgca	cccaaacaaa	atttccactc
1081 tgacctcct	ggtctatccc	agtactccga	cttototoca	aatagagaag	ctacataact
1141 tgggaaaga	g cttagaccac	: tagagtccga	aagaactccg	togatattco	agetttegen
1201 caagcactg	a tcattatgag	ccagttactt	: aaccdatctd	agacactctc	agetteetee
1261 tagggatag	a tgatactaat	ttgcaggtto	r tcattatgat	aagacaggat	ctgatgaata
1321 tatgtgaat	t gittatattt	ggaacctttt	: tattgagtgg	aagacaggat	tttaaatatt
1381 ctagtcagt	t ctttcctact	CCCaggaaaa	cccggattat	attttaaaat	aaggaaaatg
1441 tcttaaaag	t aagctgtttt	actttgaatt	tttccctaaa	tattaattaa	tataataaat
1501 ccattttaat	ttggaaagtg	aagtgctact	tatttgaact	tottaaaaat	actaattta
1561 acatctaaac	agttaactaa	gaaaagctta	gtaacatgat	ataccaaatt	gctaatttta
1621 ttatccttat	ttagaataga	aaattggtat	ttctacgttt	tatocattot	gaacacycty aaggaaggett
1681 aaaaaattgi	atttccatga	ctacctatat	atttcttcaa	tttattatta	tacagettact
1741 tcatagtcaa	acaattaaat	gtttaaatta	agattaagac	actagagaat	cadagetgae
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1861 tatgagtgtg	ggatttgacc	agtataagtg	caattatacc	caracagast	tatataaaaa
1921 aaactgctca	acacgtaagt	ttateettta	attacctcat	taggacaggac	gataastsas
1981 gttatcatto	tatagatttg	totcttataa	tgagtcccat	taatttctcc	ctccctttct
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2101 cacagtgcad	tacatactta	cccacttcaa	gggattttgg	aacattataa	ataacattoo
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3061 aaaattgacc	ttagactacc	atttatttat	taacaaaagc	agtttttact	tttagcatgg
3121 ttatctatgg	gtattttta	aagtatgagt	ctatataaac	tattatotaa	aagcaaatga
3181 gcgtcttggt	ataatgtctt	aatattttca	aattatttct	ttagaaatga	aataattota
3241 attaaaatag	ataaaatcat	tcagtaagaa	gttgttccac	catatettag	aactgttgtt
3301 tatattatga	tcctattcac	aattgtaatt	ctcatataaa	tgaagaattc	ttggtagatt
3361 gacagtcacc	atctcctttc	ttgaatacat	agatggattc	ttaccttacc	tttctcattt
3421 ttcaggtaaa	aagcagcttc	ctgattcaaa	tgagattgtg	gaaaaattgc	ttctaagaag
3481 aaagttcatc	cctgatcccc	agggctcaaa	catgatgttt	gcattctttg	cccagcactt
3541 cacgcatcag	tttttcaaga	cagatcataa	gcgagggcca	gctttcacca	acqqqctqqq
3601 ccatggggta	agatagagtt	aatatcttag	agttagtaaa	attataccaa	atcatagtca
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(2) INFORMATION FOR SEQ ID NO:2684:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15240 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2684

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(2) INFORMATION FOR SEQ ID NO: 2685:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 865 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2685

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      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2686
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     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
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    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
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 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2690
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1021 gatgeteaa ggeaacetee tteetgacat tgeetggtag gaegegaegt ggtgtttg 1081 egegeggaat geggaegeaa ggetgeteet aggteteggg gaegegeeat eeceattt 1141 getegeggag gegtagggte egggegegg acceeagteg acettgaetg geggegeg 1201 ettgaggeet gegttegeet eagttgeee etetgtgeaa tggggagaeg egeeteat 1261 ettgaeaaeg geegaagage egeegegett eegteteeeg egtgegegeg eeatgetg 1321 eaceeeegtt eegeaetgae eeteeeeegt geeeeggte eegtaetgee geeeegee 1381 gagteeeatg eegeageae egeagegag eegeaggeg ggaacetgee teegeege 1441 agegegeaeg egegeeteat gtgtegteee eateagege ggetteegte tataggee 1501 atgeaetgte aetetggega agtegeagae eegattggee gggaeggag egegagae 1561 ggttgeggge ggggeegaae gtggtataaa aegggeggga ggeeaggete gtgeegtt 1621 geagaegeea eegeegagga aaaeegtgta etattageea tggteaaeee eacegtgte 1681 ttegaeattg eegtegaegg egageeettg gggeeggte eetttgaggt egggegggg	cc cc ac cg
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1621 gcagacgcca ccgccgagga aaaccgtgta ctattagcca tggtcaaccc caccgtgt	.y ⊦+
1681 ttcgacattg ccgtcgacgg cgagcccttg ggccgcgtct cctttgaggt cgggcggg	
1741 gcggcgtgcg ggaatggggc ccagaaagta ggaataata	ית
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1801 aaaggeeegg gegeggggeg accetgettg aggggegage gegggeggge tgeggege	ra
1861 titteetgaeg aggggeeatt tigggaggte egegagtege gggaggagge egggaege	na
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1981 cccgcctcat gtggccgcgc cctgtcctgt ccgacqcacq tqctcggcgg ccgcgctca	acr
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2161 gggtgcttta catcctgagc tgggaagctg tttgcttgag ggtttttctc aaggatcga	ıα
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2761 gccaccaatg gctagtttgg atcttattcc gaaaatagat tgatcctcat gcagtcttc	.g
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3421 agegagaete tigieteaaa aaaaaaaaag tacatigeta taagagaagi geacaegga	a C
3481 actagtagtt aattcagtca catctgtgaa atagcttata aaatgctact tttaaacaa	a C t
25/11 about the same of the sa	a c t
3541 ctgtttttat gaaagggett gtaaatgttt atggtattta agetaeetet etageeata	a c t g
3541 ctgtttttat gaaagggett gtaaatgttt atggtattta agetacetet etageeata 3601 egtattatae atteaagaaa ggtteaaaae eagatataet agaaaceaat etttattt	a c t g a
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3841	gctcaagttg	gggggtggtg	atagacattt	aagaagccat	atatcttttc	agaagtaggt
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3961	attggatttt	tggcatgtct	ttgggtttca	tgtttcttaa	cccaactgcc	tgcagggcct
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			gaagccccta			
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			ggagagaaag			
			tgtcaggtac			
			gagccagaat			
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4561	accttgcaga	tttggcacac	ttcatggtta	tgttgtcaga	agtgacattt	ttcctatatg
			cacgccataa			
			tcatcctaaa			
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4921	ctagaagaag	agcatacata	aatgacaaat	atagccaatg	tgatacagaa	tgtcagatac
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6361	gcaagaccag	caagaagatc	accattgctg	actgtggaca	actcgaataa	gtttgacttg
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1	atatactatt	agccatggtc	aaccccaccg	tattattaa	agiggaatat	~~~~~~~
			gagctgtttg			
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			cagggtggtg			
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481	tcaccattac	tgactgtaga	caactcgaat	aagtttgact	tatattttat	cttaaccacc
541	agatcatton	ttctataact	caggagagca	coctocaco	ccatttactc	gcagtatect
601	agaatctttg	tactctcact	gcagttccct	ttagattcca	tattttcctt	atteceteee
661	atgcctagct	ggattgcaga	gttaagttta	tgattatgaa	ataaaaacta	aataacaatt
721		JJ J Ju	, -	- ,		
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- (2) INFORMATION FOR SEQ ID NO:2692:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 56583 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2692

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     (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2693
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     (D) TOPOLOGY: linear
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(2) INFORMATION FOR SEQ ID NO:2695:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1052 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi)SEQUENCE DESCRIPTION: SEQ ID NO:2695

1 cctctctcgg ctagacgagc ttccccaact ggtaaccctt ccacacccca atcttcatgg 61 accagagate ttggatgtte ettecaeagt teaaaagace cetttegtea eccaecetgg 121 gtatgacact ggaaatggta ttcagcttcc tggcacttct ggtcagcaac ccagtgttgg 181 gcaacaaatg atctttgagg aacatggttt taggcggacc acaccgccca caacggccac 241 ccccataagg cataggccaa gaccataccc gccgaatgta ggtgaggaaa tccaaattgg 301 tcacattccc agggaagatg tagactatca cctgtaccca cacggtccgg gactcaatcc 361 aaatgcctct acaggacaag aagctctctc tcagacaacc atctcatggg ccccattcca 421 ggacacttct gagtacatca tttcatgtca tcctgttggc actgatgaag aacccttaca 481 ggtaattaat tgttctcttc acttctcatg gggcagcaca gaaaggaata agttaggtaa 541 ctgaagtgac cagccttcga ataaaaagtg gcttcatggc cgggtgtgat ggctcacgcc 601 tgtaatccca gcactttggg aggccgaggc aggtggatca tttgaggtta ggagttcaag 661 accagcctgg ccaacatggt gaaacctcgt ctcttgaaaa aaaaaaaaa aaagtggctc 721 caccttttag aacctcttag aagatggcac atttaagccc tgctttttt ttttttaaa 781 tcccaatatg gctctacttt ggaggacata ccagagagtc actagccttt tatttccata 841 gagaaaatga aactatttct cttattctca cacatttgag gttccttttt gagtaagata 901 gatggttcta gaaaagaaag aaagatattc tacctgaatt tccatttgtg tgcagaagtc 961 taaaacacta cctttacgat ttgtccttga agaaccccac tatctacaac atatctaaag 1021 aaaaaaaaa acagcgaagc tgtgcatagc ag

(2) INFORMATION FOR SEQ ID NO:2696:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3185 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2696
- $1\ {\tt atcaaacaga}\ {\tt aatgactatt}\ {\tt gaaggcttgc}\ {\tt agcccacagt}\ {\tt ggagtatgtg}\ {\tt gttagtgtct}$
- 61 atgctcagaa tccaagcgga gagagtcagc ctctggttca gactgcagta accagtacgt

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121 aaccactgct tggtttccat tttcaaagtc aaattttgtt cttgggtgtc tgaatgccca
 181 cgacatgtct tttgcaatta cacataggga aagtgaactt gttggttagt ttatgtcttg
 241 agctgagccc tttacgaaca tcttttttcc ttctcagtgc caagcgagga atttacagag
 301 aaagaagttg tgaaaccacc atagttagtt gctgtgcttt gaatttcttt ttgctcaaat
 361 ggcctcagcg aaatcttatt tgcctatagc aaatctacaa aaaattttcc tagaccgtct
 421 tttctacaac tggatggtaa agttgattga agtgtgcctc atgtagcttt atgtttgggg
 481 catttgaagg gctatggctg gaccagagtg taatataaat gcttaataga gaggggaaaa
 541 gaagagtgta agaaccatta tagggctggg ctcacgcctg taatcccagc attttgggag
 601 gctgaggcgg atcacgaggt caggagttcg agaccagcct gaccaacatg gtgaaacccc
 661 atctctacta aaaatacaaa aattagccag tcgcggtggc acgtgcctgt aatcccagct
 721 actcacggag gctgaggcag aagaatcact tggacccagg aggcagaagt tgcagtgagc
 781 caagatcatg cctctgcacc ccagcctagg tgatagagtg agactccatc tcaaaaaaaa
 841 acaaaacaaa acaattataa caatttgaat ctgaaccata tgcaaatcag ctttaccact
 901 tccaaggtat aagaaaatcc aggtctatga gactaacatc acattgtaaa aatcaaatcg
 961 tggtagaata cctttaaatt aatataaata catccccatt gtggggacat tttgcagggt
1021 atctgcttat ctcacataca ccatgtttta ataagtgatg caacattgca tattttctaa
1081 accaagaaaa attaagcaag tgtttaagtg atttttcctt tgatagtggg ttaattggac
1141 ttcatcaaag aaaatggtat ctgcaaaact gctttgcatg ttataaaaaat gcttatttca
1201 caacttgctt tcacataacc tcttaccatt aatttgccta acagacattg atcgccctaa
1261 aggactggca ttcactgatg tggatgtcga ttccatcaaa attgcttggg aaagcccaca
1321 ggggcaagtt tccaggtaca gggtgaccta ctcgagccct gaggatggaa tccatgagct
1381 attccctgca cctgatggtg aagaagacac tgcagagctg caaggcctca gaccgggttc
1441 tgagtacaca gtcagtgtgg ttgccttgca cgatgatatg gagagccagc ccctgattgg
1501 aacccagtcc acaggtatat ggttaattgc acacaggtgc catgggagca gcggctttat
1561 gcctactgaa tgaattatgc ttcactgggc tattgattcc cgtgtaaggg tgaaaaagaa
1621 ttattaggaa agatcctctt taaagaggaa tggtaagaaa caataaaact taggtgatat
1681 ttaaggaaac aagtctgatt aaaagaaatt ttggagtatc ctggcttata cacaagacca
1741 taaagcaaga catttgaaga ggatactaaa gttgtggatt atttcctaag ctctgactcc
1801 ctgtgattac cctcactatg tataaagaaa agaagtttgg cattacagag cttacttata
1861 aaaaggaacc caaactcggg catttcatag cagcatgatt ctgagcacac gtgggtaaga
1921 cctttcttct ctggttagat atcatatgct ggtgtataat tagcttaaat gattgtgatt
1981 tagacaccta ggaaataatc aatagggcaa ttgctttcca taatacttta tcttcttgtg
2041 ctttatttct gaagcagagt agaatgctaa agatgtatcc tagtgacagc ataaacccta
2101 gaggtgacag tctgtattat tgcttttcgc ttctcttttc tgcttctgtt gggagccagt
2161 tttcttctta cgccgcatta cagagagaac gtcaaattta gcaagccata tctgccatag
2221 gtccaaataa agagacaata aaaattattc tctcttttt ggatggaata ctgcgtgaaa
2281 tggttatcca tacaaagata ctttatgtag aatagaaaaa ggaggccggg tgcagtggct
2341 cacacatgta atcctagtgc tttgggaggc taagccggga gcactgattg aggccaggag
2401 ttcatgatca gcctgggcaa tgaagtgaga ccccgtctct acaaaaaaat atgaaaaaat
2461 tagcgaggtg tggtgacaca tgcctgtagt cccagctact caagaggctg aggtagagga
2521 tcacttgagc ctacgagttc aaggctgcag tgagctatga taactccact gcactgctgc
2581 ctggatgaca cagagagacc gtttctaaat taattaatta acaattttaa gaaagaaaaa
2641 gggccattgc ttatttttcc atacaaaagt aaaataaatc ataatggcca ataagccaat
2701 gtaacttttt tttttaaggg aaagcaaaac ttgtaaaacc taaaatctct tagagttttg
2761 gcatttaccc aaatgttttc agtgattctg agaattggtg gatataaaac acatttctca
2821 gcaaacactt tcttcatttt gcatccctta ctgtactttc ttgtactgaa tctttgcttg
2881 accagggaac ccacctagcc caacaagaac aatccattct acttcttgga actacgttta
2941 ttttcctttt cccccatttc ctataagata acctctaacc aatgacaatc tcgacagcta
3001 ttcctgcacc aactgacctg aagttcactc aggtcacacc cacaagcctg agcgcccagt
3061 ggacaccacc caatgttcag ctcactggat atcgagtgcg ggtgaccccc aaggagaaga
3121 ccggaccaat gaaagaagtc aaccttgctc ctgacagctc atccgtggtt gtatcaggac
3181 ttatc
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- (2) INFORMATION FOR SEQ ID NO: 2697:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2823 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2697
 - 1 ctgcactttt gataacctga gtcccggcct ggagtacaat gtcagtgttt acactgtcaa
 - 61 ggatgacaag gaaagtgtcc ctatctctga taccatcatc ccaggtaata gaaaataagc

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121 tgctatcctg agagtgacat tccaataaga gtggggatta gcatcttaat ccccagatgc
 181 ttaagggtgt caactatatt tgggatttaa ttccgatctc ccagctgcac tttccaaaac
 241 caaqaaqtca aaqcaqcqat ttqqacaaaa tqcttqctqt taacactqct ttactqtctq
 301 tgcttcactg ggatgctgtg tgttgcagcg agtatgtaat ggagtggcag ccatggcttt
 361 aactetgtat tgtetgetea eatggaagta tgaetaaaae aetgteaegt gtetgtaete
 421 agtactgata ggctcaaagt aatatggtaa atgcatccca tcagtacatt tctgcccgat
 481 tttacaatcc atatcaattt ccaacagctg cctatttcat cttgcagttt caaatccttc
 541 tttttgaaaa ttggatttta aaaaaaagtt aagtaaaagt cacaccttca gggttgttct
 601 ttcttgtggc cttgaaagac aacattgcaa aggcctgtcc taaggatagg cttgtttgtc
 661 cattgggtta taacataatg aaagcattgg acagatcgtg tccccctttg gactcttcag
721 tagaatgctt ttactaacgc taattacatg ttttgattat gaatgaacct aaaatagtgg
781 caatggcctt aacctaggcc tgtctttcct cagcctgaat gtgcttttga atggcacatt
841 tcacaccata cattcataat gcattagcgt tatggccatg atgttgtcat gagttttgta
901 tgggagaaaa aaaatcaatt tatcacccat ttattatttt ttccggttgt tcatgcaagc
961 ttattttcta ctaaaacagt tttggaatta ttaaaaagcat tgctgatact tacttcagat
1021 attatgtcta ggctctaaga atggtttcga catcctaaac agccatatga tttttaggaa
1081 tctgaacagt tcaaattgta ccctttaagg atgttttcaa aatgtaaaaa atatatata
1141 atatatatat tecetaaaag aatatteetg titattette tagggaagea aactgiteat
1201 gatgcttagg aagtcttttc agagaattta aaacagattg catattacca tcattgcttt
1261 aacattccac caattttact actagtaacc tgatatacac tgctttattt tttcctcttt
1321 ttttccctct attttccttt tgcctccccc tccctttgct ttgtaactca atagaggtgc
1381 cccaactcac tgacctaagc tttgttgata taaccgattc aagcatcggc ctgaggtgga
1441 ccccgctaaa ctcttccacc attattgggt accgcatcac agtagttgcg gcaggagaag
1501 gtatccctat ttttgaagat tttgtggact cctcagtagg atactacaca gtcacagggc
1561 tggagccggg cattgactat gatatcagcg ttatcactct cattaatggc ggcgagagtg
1621 cccctactac actgacacaa caaacgggtg aattttgaaa acttctgcgt ttgagacata
1681 gatggtgttg catgctgcca ccagttactc cggttaaata tggatgtttc atgggggaag
1741 tcagcaattg gccaaagatt cagataggtg gaattggggg gataaggaat caaatgcatc
1801 tgctaaactg attggagaaa aacacatgca atatcttcag tacactctca tttaaaccac
1861 aagtagatat aaagcctaga gaaatacaga tgtctgctct gttaaatata aaatagcaaa
1921 tgttcattca atttgaagac ctagaatttt tcttcttaaa taccaaacac gaataccaaa
1981 ttgcgtaagt accaattgat aagaatatat caccaaaatg taccatcatg ctcttccttc
2041 taccetttga taaactetac catgeteett etttgtaget aaaaaceeat caaaatttag
2101 ggtagagtgg atgggcattg ttttgaggta ggagaaaagt aaacttggga ccattctagg
2161 ttttgttgct gtcactaggt aaagaaacac ctctttaacc acagtctggg gacaagcatg
2221 caacatttta aaggttetet getgtgeatg ggaaaagaaa catgetgaga accaatttge
2281 atgaacatgt tcacttgtaa gtagaattca ctgaatggaa ctgtagctct agatatctca
2341 catgggggga agtttaggac cctcttgtct ttttgtctgt gtgcatgtat ttctttgtaa
2401 agtactgcta tgtttctctt tgctgtgtgg caacttaagc ctcttcggcc tgggataaaa
2461 taatctgcag tggtattaat aatgtacata aagtcaacat atttgaaagt agattaaaat
2521 cttttttaaa tatatcaatg atggcaaaaa ggttaaaggg ggcctaacag tactgtgtgt
2581 agtgttttat ttttaacagt agtacactat aacttaaaat agacttagat tagactgttt
2641 gcatgattat gattctgttt cctttatgca tgaaatattg attttacctt tccagctact
2701 tcqttagctt taattttaaa atacattaac tgagtcttcc ttcttgttcg aaaccagctg
2761 ttcctcctcc cactgacctg cgattcacca acattggtcc agacaccatg cgtgtcacct
2821 ggg
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(2) INFORMATION FOR SEQ ID NO:2698:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7680 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2698
- 1 gaagagcaag aggcaggctc agcaaatggt tcagccccag tccccggtgg ctgtcagtca 61 aagcaagccc ggttgttatg acaatggaaa acactatcag ataaatcaac agtgggagcg 121 gacctaccta ggtaatgtgt tggtttgtac ttgttatgga ggaagccgag gttttaactg 181 cgaaagtaaa cctgaagctg aagagacttg ctttgacaag tacactggga acacttaccg 241 agtgggtgac acttatgagc gtcctaaaga ctccatgatc tgggactgta cctgcatcgg 301 ggctgggcga gggagaataa gctgtaccat cgcaaaccgc tgccatgaag ggggtcagtc 361 ctacaagatt ggtgacacct ggaggagacc acatgagact ggtggttaca tgttagagtg

421 tgtgtgtctt ggtaatggaa aaggagaatg gacctgcaag cccatagctg agaagtgttt

481 tgatcatgct	gctgggactt	cctatgtgg	t cadadaaac	taaaaaaaa	cetaceaaee
541 ctggatgatg	gtagattgta	cttqcctqq	a agaaggcag	: ggacgcatca	cttgcacttg
oor tagaaataga	tgcaacgatc	aggacacaad	qacatcctat	agaattggad	acacctagaa
oor caagaaggat	aatcgaggaa	acctgctcca	a qtqcatctqc	acagggaace	accuandada i
721 gtggaagtgt	gagaggcaca	cctctgtgca	a gaccacatco	r agoggatoto	accccttcac
701 Cyatgttegt	gcagctgttt	accaaccgca	a gcctcacccc	cagootooto	cctatoocca
041 ClglgtCaca	gacagtggtg	tggtctacto	: tataaaaata	r cagtagttaa	agacacaagg
ou adataagcaa	atgctttgca	cgtgcctggc	r caacggagtc	agctgccaac	r agacagetgt
Joi aacccagact	tacggtggca	acttaaatgo	ı agagccatgt	gtottaccat	tracctacaa
1021 tggcaggacg	ttctactcct	gcaccacqqa	agggcgacag	gacggacato	tttaatacea
1001 Cacaacttcg	aattatgagc	aggaccagaa	ı atactette	tocacadaco	acactotttt
1141 ggttcagact	caaggaggaa	attccaatgo	r taccttatac	cacttecect	tcctatacaa
1201 Caaccacaat	tacactgatt	gcacttctga	qqqcaqaaqa	gacaacatga	agtggtgtag
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1321 ggaaatctgc a	acaaccaatg	aaggggtcat	gtaccgcatt	ggagatcagt	gggataagca
1381 gcatgacatg	ggtcacatga	tgaggtgcac	: gtgtgttggg	aatggtcgtg	gggaatggac
1441 atgcattgcc t	tactcgcaac	ttcgagatca	gtgcattgtt	gatgacatca	cttacaatgt
1501 gaacgacaca t	raceastage	gccatgaaga	ggggcacatg	ctgaactgta	catgcttcgg
1561 tcagggtcgg o	caaattagaa	agigigatee	cgtcgaccaa	tgccaggatt	cagagactgg
1621 gacgttttat o	raccataaca	ttagagageta	gaagtatgtg	catggtgtca	gataccagtg
1681 ctactgctat of 1741 ctcaagtggt of 1801 category	ctatagaga	tatttatcac	taaaaataa	cctttacaga	cctatccaag
1801 catccagtgg a	aatgcaccac	agccatctca	Catttecase	agicagecea	actcccaccc
1861 taaaaattct g	rtaggccgtt	adagaaaaaa	taccatacca	ggggggttaa	ggtggagacc
1921 catcaaaggc c	ctgaagcctg	gtgtggtata	Casadaccsa	ctcatcacca	topagagata
1981 cggccaccaa g	gaagtgactc	gctttgactt	caccaccacc	accaccagca	caccageagea
2041 Cagcaacacc g	gtgacaggag	agacgactcc	cttttctcct	cttgtggcca	cttctcaatc
2101 tgtgaccgaa a	atcacagcca	gtagctttgt	gatctcctaa	gtctcagctt	ccdacaccdt
2101 gtcgggattc c	gggtggaat	atgagctgag	tgaggaggga	gatgagecae	agtacctgga
2221 CCCCcaage a	acagccactt	ctqtqaacat	ccctgacctg	cttcctaacc	gaaatagat
2201 tytaaatgto t	atcagatat	ctgaggatgg	ggagcagagt	ttgatcctgt	ctacttcaca
2341 aacaacageg e	ctgatgccc	ctcctgaccc	gactgtggac	caagttgatg	acacctcaat
2401 tgttgttcgc t	ggagcagac	cccaggctcc	catcacaggg	tacagaatag	tctattcccc
2401 alcagtagaa g	gtagcagca	cagaactcaa	ccttcctgaa	actocaaact	ccatcaccct
2321 Cagigactig c	aacctggtg	ttcagtataa	catcactatc	tatactataa	aagaaaatca
2581 agaaagtaca c	ctgttgtca	ttcaacaaga	aaccactggc	accccacgct	cagatacagt
2641 gccctctccc a	gggacctgc	agtttgtgga	agtgacagac	gtgaaggtca	ccatcatgtg
2701 gacaccgcct g	agagigeag	tgaccggcta	ccgtgtggat	gtgatccccg	tcaacctgcc
2761 tggcgagcac g	tcacctatt	rgcccatcag	caggaacacc	tttgcagaag	tcaccgggct
2821 gtcccctggg g	ctcaaccac	acticaaagt	ctttgcagtg	agccatggga	gggagagcaa
2881 gcctctgact g 2941 tgaaactgat t	ctactates :	taataaaata	ggatgeteee	actaacctcc	agtttgtcaa
3001 ccgactgacc g	tagacetta	cccaagacg	gactccacct	cgggcccaga	taacaggata
3061 tgtctccaag t	accccctga (ggaatctgca	acctacatet	cagtacaatg	tgggtccctc
3121 ggccataaag g	gcaaccaag a	agagccccaa	agccactgga	gagtacaccg	catccctcgt
3181 tgggagetet a	ttccacctt a	acaacaccga	agtaactaaa	accaccatca	tastasasta
3241 gacgcctgct c	caagaattq d	attttaaget	gggtgtacga	ccaagecagg	asaasaaaa
Jour accacgagaa gi	tgacttcag a	actcaggaag	categitata	tecaaettaa	ctccagaagt
Jour adagracate to	acaccatcc a	aaqtcctqaq	agatggacag	gaaagagatg	caccaattat
Jazi adacadayiy gi	igacaccat t	tqtctccacc	aacaaactto	catctggagg	caaaccctca
3401 Cactggagtg Ci	tcacagtct d	ctqqqaqaq	gagcaccacc	ccagacatta	ctaattataa
JUAT MALLACCACA AC	cccctacaa <i>a</i>	acqqccaqca	gggaaattct	ttagaagaag	taatacataa
Jour Lyattagage to	cctgcactt t	tgataacct	gagtecegge	ctggagtaca	atataaatat
Just fracactate as	aggatgaca a	aggaaagtgt	ccctatctct	gataccatca	tcccaactat
3/21 LCCTCCTCCC ac	ctgacctgc q	gattcaccaa	cattggtcca	gacaccatgo	atatcaccta
3701 ggctccaccc co	catccattq a	itttaaccaa	cttcctaata	cattactcac	ctatassss
JOHI LYAGGAAGAT GT	ttgcagagt t	gtcaatttc	teetteagae .	aatocaotoo	tettaacaaa
SANT COLOCEDCE GO	jtacagaat a	itataataaa	tatetecaat (atctacaac	aacatcacac
Jagi Cacacctett ag	jaggaagac a	gaaaacagg	tcttgattcc (ccaactggca	ttgacttttc
4021 tgatattact go	caactett t	tactgtgca	ctggattgct (cctcgagcca	ccatcactgg
4081 ctacaggate cg	sttccatca c	cyaycactt	cagtgggaga (cctcgagaag .	atcgggtgcc
4141 ccactctcgg aa		.ccccaccaa (ceteacteca (ggcacagagt	atgtggtcag

4201	. catcgttgc	t cttaatggca	a gagaggaaag	, tcccttatto	g attggccaad	aatcaacagt
4201	. ttctgatgt	t ccgagggaco	: tggaagttgt	tactacaaco	cccaccagcc	tactdatcad
4321	. ctgggatgc	t cctgctgtca	ı cagtqaqata	ı ttacaggato	: acttacqqac	aaacaddadd
4361	aaatagccc	t gtccaggagt	: tcactgtgcc	: tgggagcaac	tctacageta	ccatcadedd
4441	. CCLLaaacc	t ggagttgatt	: ataccatcac	: tgtgtatgct	: gtcactggc	gtagagacag
4501	. ccccgcaag	c agcaagccaa	ı tttccattaa	ttaccgaaca	qaaattgaca	aaccatccca
4561	gatgcaagt	g accgatgtto	aggacaacaq	cattagtgtc	aagtggctgc	cttcaagttc
4621	ccctgttaci	: ggttacagag	r taaccaccac	: tcccaaaaat	ggaccaggac	caacaaaaac
4081	taaaactgca	a ggtccagato	: aaacagaaat	gactattgaa	gacttacaac	: ccacagtgga
4/41	gtatgtggti	: agtgtctatg	r ctcagaatcc	aaqcqqaqaq	agtcagcctc	tagttcagac
4001	tgcagtaaco	: aacattgatc	: gccctaaaqq	actggcattc	actgatgtgg	atatcaattc
4001	catcaaaatt	: gcttgggaaa	gcccacaggg	gcaagtttcc	aggtacaggg	tgacctactc
4921	gagecetgag	, gatggaatco	: atgagctatt	ccctqcacct	gatggtgaag	aagacactgc
4901	agagetgeaa	i ggcctcagac	: cgggttctga	gtacacagtc	agtgtggttg	ccttgcacga
5041	tgatatggag	, agccagcccc	: tgattggaac	ccaqtccaca	gctattcctg	caccaactga
2101	cctgaagtto	: actcaggtca	cacccacaag	cctgagcgcc	cagtggacac	cacccaatgt
2101	tcagctcact	: ggatatcgag	tgcgggtqac	ccccaaggag	aagaccggac	caatgaaaga
3221	aatcaacctt	: gctcctgaca	gctcatccgt	ggttgtatca	ggacttatgg	tggccaccaa
2281	atatgaagtg	r agtgtctatg	ctcttaagga	cactttgaca	agcagaccag	ctcagggtgt
5341	tgtcaccact	: ctggagaatg	tcagcccacc	aagaagggct	catataacaa	atoctactoa
5401	gaccaccato	: accattagct	ggagaaccaa	gactgagacg	atcactggct	tccaagttga
3461	tgccgttcca	gccaatggcc	agactccaat	ccagagaacc	atcaagccag	atotcadaad
3321	ctacaccatc	: acaggtttac	aaccaggcac	tgactacaag	atctacctgt	acaccttgaa
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			-	-	J -	

- (2) INFORMATION FOR SEQ ID NO:2699: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14740 base pairs

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2699 1 cctctctcgg ctagacgagc ttccccaact ggtaaccctt ccacacccca atcttcatgg 61 accagagate ttggatgtte ettecaeagt teaaaagace eetttegtea eeeaeeetgg 121 gtatgacact ggaaatggta ttcagcttcc tggcacttct ggtcagcaac ccagtgttgg 181 gcaacaaatg atctttgagg aacatggttt taggcggacc acaccgccca caacggccac 241 ccccataagg cataggccaa gaccataccc gccgaatgta ggtgaggaaa tccaaattgg 301 tcacattccc agggaagatg tagactatca cctgtaccca cacggtccgg gactcaatcc 361 aaatgeetet acaggacaag aagetetete teagacaace ateteatggg eeccatteea 421 ggacacttct gagtacatca tttcatgtca tcctgttggc actgatgaag aacccttaca 481 ggtaattaat tgttctcttc acttctcatg gggcagcaca gaaaggaata agttaggtaa 541 ctgaagtgac cagccctcga ataaaaagtg gcttcatggc cgggtgtgat ggctcacgcc 601 tgtaatccca gcactttggg aggccgaggc aggtggatca tttgaggtta ggagttcaag 721 caccttttag aacctcttag aagatggcac atttaagccc tgctttttt ttttttaaa 781 teceaatatg getetaettt ggaggaeata eeagagagte aetageettt tattteeata 841 gagaaaatga aactatttct cttattctca cacatttgag gttccttttt gagtaagata 901 gatggttcta gaaaagaaag aaagatattc tacctgaatt tccatttgtg tgcagaagtc 961 taaaacacta cctttacgat ttgtccttga agaaccccac tatctacaac atatctaaag 1021 aaaaaaaaa acagcgaagc tgtgcatagc ag 1 atcaaacaga aatgactatt gaaggcttgc agcccacagt ggagtatgtg gttagtgtct 61 atgctcagaa tccaagcgga gagagtcagc ctctggttca gactgcagta accagtacgt 121 aaccactgct tggtttccat tttcaaagtc aaattttgtt cttgggtgtc tgaatgccca 181 cgacatgtct tttgcaatta cacataggga aagtgaactt gttggttagt ttatgtcttg 241 agctgagccc tttacgaaca tctttttcc ttctcagtgc caagcgagga atttacagag 301 aaagaagttg tgaaaccacc atagttagtt gctgtgcttt gaatttcttt ttgctcaaat 361 ggcctcagcg aaatcttatt tgcctatagc aaatctacaa aaaattttcc tagaccgtct 421 tttctacaac tggatggtaa agttgattga agtgtgcctc atgtagcttt atgtttgggg 481 catttgaagg gctatggctg gaccagagtg taatataaat gcttaataga gaggggaaaa 541 gaagagtgta agaaccatta tagggctggg ctcacgcctg taatcccagc attttgggag 601 gctgaggcgg atcacgaggt caggagttcg agaccagcct gaccaacatg gtgaaacccc 661 atctctacta aaaatacaaa aattagccag tcgcggtggc acgtgcctgt aatcccagct 721 actcacggag gctgaggcag aagaatcact tggacccagg aggcagaagt tgcagtgagc 781 caagatcatg cctctgcacc ccagcctagg tgatagagtg agactccatc tcaaaaaaaa 841 acaaaacaaa acaattataa caatttgaat ctgaaccata tgcaaatcag ctttaccact 901 tccaaggtat aagaaaatcc aggtctatga gactaacatc acattgtaaa aatcaaatcg 961 tggtagaata cctttaaatt aatataaata catccccatt gtggggacat tttgcagggt 1021 atctgcttat ctcacataca ccatgtttta ataagtgatg caacattgca tattttctaa 1081 accaagaaaa attaagcaag tgtttaagtg atttttcctt tgatagtggg ttaattggac 1141 ttcatcaaag aaaatggtat ctgcaaaact gctttgcatg ttataaaaaat gcttatttca 1201 caacttgctt tcacataacc tcttaccatt aatttgccta acagacattg atcgccctaa 1261 aggactggca ttcactgatg tggatgtcga ttccatcaaa attgcttggg aaagcccaca 1321 ggggcaagtt tccaggtaca gggtgaccta ctcgagccct gaggatggaa tccatgagct 1381 attecetgea cetgatggtg aagaagacae tgeagagetg caaggeetea gaeegggtte 1441 tgagtacaca gtcagtgtgg ttgccttgca cgatgatatg gagagccagc ccctgattgg 1501 aacccagtcc acaggtatat ggttaattgc acacaggtgc catgggagca gcggctttat 1561 gcctactgaa tgaattatgc ttcactgggc tattgattcc cgtgtaaggg tgaaaaagaa 1621 ttattaggaa agatcctctt taaagaggaa tggtaagaaa caataaaact taggtgatat 1681 ttaaggaaac aagtctgatt aaaagaaatt ttggagtatc ctggcttata cacaagacca 1741 taaagcaaga catttgaaga ggatactaaa gttgtggatt atttcctaag ctctgactcc 1801 ctgtgattac cctcactatg tataaagaaa agaagtttgg cattacagag cttacttata 1861 aaaaggaacc caaactcggg catttcatag cagcatgatt ctgagcacac gtgggtaaga 1921 cctttcttct ctggttagat atcatatgct ggtgtataat tagcttaaat gattgtgatt 1981 tagacaccta ggaaataatc aatagggcaa ttgctttcca taatacttta tcttcttgtg 2041 ctttatttct gaagcagagt agaatgctaa agatgtatcc tagtgacagc ataaacccta 2101 gaggtgacag tetgtattat tgettttege ttetetttte tgettetgtt gggagecagt 2161 tttcttctta cgccgcatta cagagagaac gtcaaattta gcaagccata tctgccatag 2221 gtccaaataa agagacaata aaaattattc tctctttttt ggatggaata ctgcgtgaaa 2281 tggttatcca tacaaagata ctttatgtag aatagaaaaa ggaggccggg tgcagtggct 2341 cacacatgta atcctagtgc tttgggaggc taagccggga gcactgattg aggccaggag

(B) TYPE: nucleic acid

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4021	. tgatattact	: gccaactctt	: ttactgtgca	ctggattgct	cctcgagcca	ccatcactor
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4141	. ccactctcgg	, aattccatca	ccctcaccaa	cctcactcca	ggcacagagt	atgtggtcag
4201	catcgttgct	: cttaatggca	gagaggaaag	tcccttattq	attggccaac	: aatcaacagt
4261	ttctgatgtt	: ccgagggacc	: tggaagttgt	tgctgcgacc	cccaccagco	tactgatcag
4321	ctgggatgct	: cctgctgtca	cagtgagata	ı ttacaggatc	acttacggag	aaacaggagg
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4001	caaaactgca	ggtccagatc	aaacagaaat	gactattgaa	ggcttgcagc	ccacagtgga
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5461	tgccgttcca	gccaatggcc	agactccaat	ccagagaacc	atcaaccac	atotcagaag
5521	ctacaccatc	acaggtttac	aaccaggcac	tgactacaag	atctacctgt	acaccttgaa
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(2) INFORMATION FOR SEO ID NO:2700:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 2861 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2700
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2761 tgaaatttaa actgcaatgc cagtcctgca ggagtgctgg cattaccctc tgcagaacag
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(2) INFORMATION FOR SEQ ID NO:2701:

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(i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1256 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2701
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   61 cgacggcggc ggcgggcggg cggcgcgggt ggcgccgagg ccgggggctg ccatggaccg
  121 tetgtgtget ggeggeegee ggettgaegt gtaeggeget gateacetae gettgetggg
 181 ggcagctgcc gccgctgccc tgggcgtcgc caaccccqtc gcgaccqqtq qqcqtqctqc
 241 tgtggtggga gcccttcggg gggcgcgata gcgccccqaq gccqcccct qactqcccqc
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1141 ctgtccacat cacctccttc tgggacgagc cttggtgccg ggtgtgccag gctgtacaga
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(2) INFORMATION FOR SEQ ID NO:2702:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1126 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2702
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 121 gtgtctcaag acgatcccac tgtgtaccct aatgggtccc gcttcccaga cagcacaggg
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(2) INFORMATION FOR SEO ID NO:2703:
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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1701 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2703
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(2) INFORMATION FOR SEQ ID NO:2704:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6944 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2704
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1561 caagtgeete eteeetggee tegtaeetge tttteetega eegeaaeece geggtetate
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1801 caagttgtca gctttttgat cctctactgt gcatctcctt gactgccgca tcatgggagt
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1921 ctcagcacag agatgggggc ccggtttcca tattttttgc acagctagca attgggctcc
1981 ctttgctgct gatgggcatc attgtttagg ggtgaaggag ggggttcttc ctcaccttgt
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2341 cacaagtact atctgttccc ctgtcctgtg aatggaagca aagtgctgga ttgtccttgg
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2641 ataaagcaga agcaaccttt ttccctcttc ccagaaaacc agtctgtgtt tacagacaga
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2761 tgaaatttaa actgcaatgc cagtcctgca ggagtgctgg cattaccctc tgcagaacag
2821 tgaaaggtat tgcactacat tatggaatca tgcaaaaaa a
    1 acgcgtggcg agcggaggca gcgctgcctg ttcgcgccat gggggcaccg tggggctcgc
  61 cgacggcggc ggcggggg cggcgcgggt ggcgccgagg ccgggggctg ccatggaccg
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 961 ctgggggggt gccggtggtg ctgggcccag accgtgccaa ctacgagcgc tttgtgcccc
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 121 ggatgaataa tgctgggcac ggccccaccc ggaggctgcg aggcttgggg gtcctggccg
 181 gggtggctct gctcgctgcc ctctggctcc tgtggctgct ggggtcagcc cctcggggta
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 481 ccatggagte tectageeac acceaeggee teageeacet eegaggeate tteaaetggg
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1261 acagaggtca ggaagcaggg gtggggggtg caggtgggca ctggagcatg cagaggaggt
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1621 ggggagcaaa ccagcttgtt ctgggctcag ggagggaggg cggtggacaa taaacgtctg
1681 agcagtgaaa aaaaaaaaa a
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(2) INFORMATION FOR SEQ ID NO:2705:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2025 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2705

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1 cccccctcca agataatttt taaaaaacct tctcctttgc tcacctttgc ttcccagcct
  61 teccatecce ecacegaaag caaateatte aacgaeeece gaeeeteega eggeaggage
 121 cccccgacct cccaggcgga ccgccctccc tccccggggt tccgggcccg gcgagagggc
 181 gcgagcacag ccgaggccat ggaggtgacg gcggaccagc cgcgctgggt gagccaccac
 241 caccccgccg tgctcaacgg gcagcacccg gacacgcacc acccgggcct cagccactcc
 301 tacatggacg cggcgcagta cccgctgccg gaggaggtgg atgtgctttt taacatcgac
 361 ggtcaaggca accacgtccc gccctactac ggaaactcgg tcagggccac ggtgcagagg
 421 taccetecga eccaecacgg gagecaggtg tgeegeeege etetgettea tggateeeta
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 541 ageceettet ccaagacgte catecaccae ggeteecegg ggeceetete egtetacece
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1261 ctgactatga agaaggaagg catccagacc agaaaccgaa aaatgtctag caaatccaaa
1321 aagtgcaaaa aagtgcatga ctcactggag gacttcccca agaacagctc gtttaacccg
1381 gccgccctct ccagacacat gtcctccctg agccacatct cgcccttcag ccactccagc
1441 cacatgetga ccaegeceae geogatgeae eegecateca geetgteett tggaceaeae
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(2) INFORMATION FOR SEQ ID NO:2706:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 789 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2706

(2) INFORMATION FOR SEQ ID NO:2707:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1283 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2707
- 1 ttctctctga ccagcaccat gcttctcctg gtgacaagcc ttctgctctg tgagttacca 61 cacccagcat tectectgat eccagagaaa teggatetge gaacagtgge accageetet 121 agtctcaatg tgaggtttga ctccaggacg atgaatttaa gctgggactg ccaagaaaac 181 acaacettca gcaagtgttt cttaactgac aagaagaaca gagtcgtgga acccaggetc 241 agtaacaacg aatgttcgtg cacatttcgt gaaatttgtc tgcatgaagg agtcacattt 301 gaggttcacg tgaatactag tcaaagagga tttcaacaga aactgcttta tccaaattca 361 ggaagggagg gtaccgctgc tcagaatttc tcctgtttca tctacaatgc ggatttaatg 421 aactgtacct gggcgagggg tccgacggcc ccccgtgacg tccagtattt tttgtacata 481 cgaaactcaa agagaaggag ggagatccgg tgtccttatt acatacaaga ctcaggaacc 541 catgtgggat gtcacctgga taacctgtca ggattaacgt ctcgcaatta ctttctggtt 601 aacggaacca gccgagaaat tggcatccaa ttctttgatt cacttttgga cacaaagaaa 661 atagaacgat tcaaccctcc cagcaatgtc accgtacgtt gcaacacgac gcactgcctc 721 gtacggtgga aacagcccag gacctatcag aagctgtcgt acctggactt tcagtaccag 781 ctggacgtcc acagaaagaa tacccagcct ggcacggaaa acctactgat taatgtttct 841 ggtgatttgg aaaatagata caactttcca agctctgagc ccagagcaaa acacagtgtg 901 aagatcagag ctgcagacgt ccgcatcttg aattggagct cctggagtga agccattgaa 961 tttggttcct taggatacag cggctgttcc cgccagttcc acagatcaaa gacaaactga 1021 atgataacca tgaggtggaa gacgagatca tctgggagga attcacccca gaggaaggga 1081 aaggctaccg cgaagaggtc ttgaccgtga aggaaattac ctgagaccca gagggtgtag 1141 gaatggcatg gacatctccg cctccgcgac acgggggaac tgttttcttg atgatgctgt 1201 gaacctttat atcattttct atgtttttat ttaaaaacat gacatttggg gccaggcgcg 1261 gtggctcacg cctgtaatcc cag

(2) INFORMATION FOR SEQ ID NO:2708

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3043 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2708
- 1 ttctcagagt ggctgcagtc tcgctgctgg atgtgcacat ggtggtcatt ccctctgctc 61 acaggggcag gggtcccccc ttactggact gaggttgccc cctgctccag gtcctgggtg 121 ggagcccatg tgaactgtca gtggggcagg tctgtgagag ctcccctcac actcaagtct 181 ctctcacagt ggccagagaa gaggaaggct ggagtcagaa tgaggcacca gggcgggcat 241 agcctgccca aaggcccctg ggattacagg caggatgggg agccctatct aagtgtctcc 301 cacgccccac cccagccatt ccaggccagg aagtccaaac tgtgcccctc agagggaggg 361 ggcagcctca ggcccattca gactgcccag ggagggctgg agagccctca ggaaggcggg 421 tgggtgggct gtcggttctt ggaaaggttc attaatgaaa acccccaagc ctgaccacct 481 agggaaaagg ctcaccgttc ccatgtgtgg ctgataaggg ccaggagatt ccacagttca 541 ggtagttece eegeeteeet ggeattttgt ggteaceatt aateatttee tetgtgtatt 601 taagagetet tttgecagtg ageceageta cacagagaga aaggetaaag ttetetggag 661 gatgtggctg cagagcctgc tgctcttggg cactgtggcc tgcagcatct ctgcacccgc 721 ccgctcgccc agccccagca cgcagccctg ggagcatgtg aatgccatcc aggaggcccg 781 gcgtctcctg aacctgagta gagacactgc tgctgagatg gtaagtgaga gaatgtgggc 841 ctgtgctagg caccagtggc cctgactggc cacgcctgtc agcttgataa catgacattt 901 tccttttcta cagaatgaaa cagtagaagt catctcagaa atgtttgacc tccaggtaag 961 atgettetet etgacatage tttecagaag eccetgeeet ggggtggagg tggggaetee 1021 attttagatg gcaccacaca gggttgtcca ctttctctcc agtcagctgg ctgcaggagg 1081 agggggtagc aactgggtgc tcaagaggct gctggccgtg cccctatggc agtcacatga 1141 gctcctttat cagctgagcg gccatgggca gacctagcat tcaatggcca ggagtcacca 1201 ggggacaggt ggtaaagtgg gggtcacttc atgagacagg agctgtgggt ttggggcgct 1261 cactgtgccc cgagaccaag tcctgttgag acagtgctga ctacagagag gcacagaggg 1321 gtttcaggaa caaccettge ceacceagea ggtccaggtg aggececace ecceteteee 1381 tgaatgatgg ggtgagagtc acctecttee ctaaggetgg geteetetee aggtgeeget 1441 gagggtggcc tgggcgggc agtgagaagg gcaggttcgt gcctgccatg gacagggcag 1501 ggtctatgac tggacccagc ctgtgcccct cccaagccct actcctgggg gctgggggca 1561 gcagcaaaaa ggagtggtgg agagttcttg taccactgtg ggcacttggc cactgctcac 1621 cgacgaacga cattttccac aggagccgac ctgcctacag acccgcctgg agctgtacaa 1681 gcagggcctg cggggcagcc tcaccaagct caagggcccc ttgaccatga tggccagcca 1741 ctacaagcag cactgccctc caaccccggt gagtgcctac ggcagggcct ccagcaggaa 1801 tgtcttaatc tagggggtgg ggtcgacatg gggagagatc tatggctgtg gctgttcagg 1861 accccagggg gtttctgtgc caacagttat gtaatgatta gccctccaga gaggaggcag 1921 acageceatt teateceaag gagteagage cacagagege tgaageceae agtgeteece 1981 agcaggagct gctcctatcc tggtcattat tgtcattacg gttaatgagg tcagaggtga 2041 gggcaaaccc aaggaaactt ggggcctgcc caaggcccag aggaagtgcc caggcccaag 2101 tgccaccttc tggcaggact ttcctctggc cccacatggg gtgcttgaat tgcagaggat 2161 caaggaaggg aggctacttg gaatggacaa ggacctcagg cactccttcc tgcgggaagg 2221 gagcaaagtt tgtggccttg actccactcc ttctgggtgc ccagagacga cctcagccca 2281 gctgccctgc tctgccctgg gaccaaaaag gcaggcgttt gactgcccag aaggccaacc 2341 tcaggctggc acttaagtca ggcccttgac tctggctgcc actggcagag ctatgcactc 2401 cttggggaac acgtgggtgg cagcagcgtc acctgaccca ggtcagtggg tgtgtcctgg 2461 agtgggcctc ctggcctctg agttctaaga ggcagtagag aaacatgctg gtgcttcctt 2521 cccccacgtt acccacttgc ctggactcaa gtgtttttta ttttctttt tttaaaggaa 2581 acttcctgtg caacccagat tatcaccttt gaaagtttca aagagaacct gaaggacttt 2641 ctgcttgtca tcccctttga ctgctgggag ccagtccagg agtgagaccg gccagatgag 2701 gctggccaag ccggggagct gctctctcat gaaacaagag ctagaaactc aggatggtca 2761 tcttggaggg accaaggggt gggccacagc catggtggga gtggcctgga cctgccctgg 2821 gcacactgac cctgatacag gcatggcaga agaatgggaa tattttatac tgacagaaat 2881 cagtaatatt tatattta tatttttaaa atatttatt atttatttat ttaagttcat 2941 attccatatt tattcaagat gttttaccgt aataattatt attaaaaata tgcttctact 3001 tgtccagtgt tctagtttgt ttttaaccat gagcaaatgc cat
- (2) INFORMATION FOR SEQ ID NO:2709:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5115 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2709 1 acacagagag aaaggctaaa gttctctgga ggatgtggct gcagagcctg ctgctcttgg 61 gcactgtggc ctgcagcatc tctgcacccg cccgctcgcc cagccccagc acgcagccct 121 gggagcatgt gaatgccatc caggaggccc ggcgtctcct gaacctgagt agagacactg 181 ctgctgagat gaatgaaaca gtagaagtca tctcagaaat gtttgacctc caggagccga 241 cctgcctaca gacccgcctg gagctgtaca agcagggcct gcggggcagc ctcaccaagc 301 tcaagggccc cttgaccatg atggccagcc actacaagca gcactgccct ccaaccccgg 361 aaacttcctg tgcaacccag attatcacct ttgaaagttt caaagagaac ctgaaggact 421 ttctgcttgt catccccttt gactgctggg agccagtcca ggagtgagac cggccagatg 481 aggctggcca agccggggag ctgctctctc atgaaacaag agctagaaac tcaggatggt 541 catcttggag ggaccaaggg gtgggccaca gccatggtgg gagtggcctg gacctgccct 601 gggcacactg accctgatac aggcatggca gaagaatggg aatattttat actgacagaa 661 atcagtaata tttatatatt tatattttta aaatatttat ttatttattt atttaagttc 721 atattccata tttattcaag atgttttacc gtaataatta ttattaaaaa tagcttctaa 781 aaaaaaaaa 1 ttctctctga ccagcaccat gcttctcctg gtgacaagcc ttctgctctg tgagttacca 61 cacccagcat tcctcctgat cccagagaaa tcggatctgc gaacagtggc accagcctct 121 agtctcaatg tgaggtttga ctccaggacg atgaatttaa gctgggactg ccaagaaaac 181 acaaccttca gcaagtgttt cttaactgac aagaagaaca gagtcgtgga acccaggctc 241 agtaacaacg aatgttcgtg cacatttcgt gaaatttgtc tgcatgaagg agtcacattt 301 gaggttcacg tgaatactag tcaaagagga tttcaacaga aactgcttta tccaaattca 361 ggaagggagg gtaccgctgc tcagaatttc tcctgtttca tctacaatgc ggatttaatg 421 aactgtacct gggcgagggg tccgacggcc ccccgtgacg tccagtattt tttgtacata 481 cgaaactcaa agagaaggag ggagatccgg tgtccttatt acatacaaga ctcaggaacc 541 catgtgggat gtcacctgga taacctgtca ggattaacgt ctcgcaatta ctttctggtt 601 aacggaacca gccgagaaat tggcatccaa ttctttgatt cacttttgga cacaaagaaa 661 atagaacgat tcaaccctcc cagcaatgtc accgtacgtt gcaacacgac gcactgcctc 721 gtacggtgga aacagcccag gacctatcag aagctgtcgt acctggactt tcagtaccag 781 ctggacgtcc acagaaagaa tacccagcct ggcacggaaa acctactgat taatgtttct 841 ggtgatttgg aaaatagata caactttcca agctctgagc ccagagcaaa acacagtgtg 901 aagatcagag ctgcagacgt ccgcatcttg aattggagct cctggagtga agccattgaa 961 tttggttcct taggatacag cggctgttcc cgccagttcc acagatcaaa gacaaactga 1021 atgataacca tgaggtggaa gacgagatca tctgggagga attcacccca gaggaaggga 1081 aaggctaccg cgaagaggtc ttgaccgtga aggaaattac ctgagaccca gagggtgtag 1141 gaatggcatg gacateteeg ceteegegae acgggggaae tgttttettg atgatgetgt 1201 gaacetttat atcattttet atgtttttat ttaaaaacat gacatttggg gecaggegeg 1261 gtggctcacg cctgtaatcc cag 1 ttctcagagt ggctgcagtc tcgctgctgg atgtgcacat ggtggtcatt ccctctgctc 61 acaggggcag gggtcccccc ttactggact gaggttgccc cctgctccag gtcctgggtg 121 ggagcccatg tgaactgtca gtggggcagg tctgtgagag ctcccctcac actcaagtct 181 ctctcacagt ggccagagaa gaggaaggct ggagtcagaa tgaggcacca gggcgggcat 241 agcctgccca aaggcccctg ggattacagg caggatgggg agccctatct aagtgtctcc 301 cacgccccac cccagccatt ccaggccagg aagtccaaac tgtgcccctc agagggaggg 361 ggcagcetca ggcccattca gactgcccag ggagggctgg agagccetca ggaaggcggg 421 tgggtgggct gtcggttctt ggaaaggttc attaatgaaa acccccaagc ctgaccacct 481 agggaaaagg ctcaccgttc ccatgtgtgg ctgataaggg ccaggagatt ccacagttca 541 ggtagttccc ccgcctccct ggcattttgt ggtcaccatt aatcatttcc tctgtgtatt 601 taagagetet tttgecagtg ageceageta cacagagaga aaggetaaag ttetetggag 661 gatgtggctg cagagcctgc tgctcttggg cactgtggcc tgcagcatct ctgcacccgc 721 ccgctcgccc agccccagca cgcagccctg ggagcatgtg aatgccatcc aggaggcccg 781 gcgtctcctg aacctgagta gagacactgc tgctgagatg gtaagtgaga gaatgtgggc 841 ctgtgctagg caccagtggc cctgactggc cacgcctgtc agcttgataa catgacattt 901 tccttttcta cagaatgaaa cagtagaagt catctcagaa atgtttgacc tccaggtaag 961 atgettetet etgacatage tttecagaag eccetgeeet ggggtggagg tggggaetee 1021 attttagatg gcaccacaca gggttgtcca ctttctctcc agtcagctgg ctgcaggagg 1081 agggggtagc aactgggtgc tcaagaggct gctggccgtg cccctatggc agtcacatga 1141 gctcctttat cagctgagcg gccatgggca gacctagcat tcaatggcca ggagtcacca 1201 ggggacaggt ggtaaagtgg gggtcacttc atgagacagg agctgtgggt ttggggcgct 1261 cactgtgccc cgagaccaag tcctgttgag acagtgctga ctacagagag gcacagaggg 1321 gtttcaggaa caaccettge ccacceagca ggtccaggtg aggececace ecceteteee

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1381 tgaatgatgg ggtgagagtc acctccttcc ctaaggctgg gctcctctcc aggtgccgct
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1501 ggtctatgac tggacccagc ctgtgcccct cccaagccct actcctgggg gctgggggca
1561 gcagcaaaaa ggagtggtgg agagttcttg taccactgtg ggcacttggc cactgctcac
1621 cgacgaacga cattttccac aggagccgac ctgcctacag acccgcctgg agctgtacaa
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2281 gctgccctgc tctgccctgg gaccaaaaag gcaggcgttt gactgcccag aaggccaacc
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2461 agtgggcctc ctggcctctg agttctaaga ggcagtagag aaacatgctg gtgcttcctt
2521 cccccacgtt acccacttgc ctggactcaa gtgtttttta tttttctttt tttaaaggaa
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2641 ctgcttgtca tcccctttga ctgctgggag ccagtccagg agtgagaccg gccagatgag
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2821 gcacactgac cctgatacag gcatggcaga agaatgggaa tattttatac tgacagaaat
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(2) INFORMATION FOR SEQ ID NO:2710:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2440 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEO ID NO:2710

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191	gcgagactcc	gtctctaaat	aaataaataa	ataaatttag	ccttctactc	aagaacttat
241	ctggctttgt	cttaatgtaa	aaataatttc	tttttqctaa	attattgaga	gaaatttact
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421	tgggcggatc	atctgaggtc	aggagttcaa	gatcagcctg	accaacatoo	tgaaacccct
481	tctctactaa	aaatacaaaa	attagctggg	cataataata	ggtgcctgta	attotaocta
341	cttgggaggc	tgaggcatga	gaatcacttq	aacccagaaa	gcagaggttg	cantgagetg
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ppT	aaaaaaaaa	tggctgggcg	tggtgcctca	tgcctgtaat	cccagcactt	taggaatcca
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041	ccagctactc	aggaggctga	ggcaggagaa	tcacttgaat	ttgggaggtg	gagattgtag
901	ccagccaaga	tggtgccatt	gcactccagt	ctgggtgaca	gagtgagact	ccatctcaaa
901	aaaaaaaaa	aaatcttaaa	aactccttcc	agaagattta	atacttactt	tcacccaacc
1021	acccgacttg	agtatcacca	ataacagagg	atacagtccg	ttttcagtag	ageettagta
1001	gcaaagggtt	ttcattttta	tttttcagat	acaggatett	gccctgtcac	ccaactgga
1141	gtgcagtgat	gtgatcatag	ctgactgcag	cctcctgagt	agctaggact	ataggtgtat
1201	Lataggacaa	tttttaaaaa	atttcattqt	aaagacagga	ttccactgtg	ttacccaaac
1201	tgcaagtctt	ggcctcaagt	gatcattcca	cctttaactc	ttgccctcaa	acantectee
1321	cacctcagac	tcccaaaatg	ctgggattat	gggtgtgagc	caccatttcc	agectactag
1291	caagggtctt	gttacatatt	acttggcatq	atttatgtaa	tttaaaaaaa	ttatttattt
1441	ttcaaataga	aaagtaaaat	aacgaatatq	cttttccaat	aacataatcc	ccttctcact
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					J 9 C	,gg-g

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1561 tgtcccctta taacctcctc catatcattt agggatggtc tcagctgcaa gtaagaactg
  1621 ccacaacagg tgatgtaagc ccaaaaaaaaa aaaaaaaaa aaagcaaaagc caagcaaaac
  1681 aaagcccatt taattatttc ccataataat aagtctggga gaaagaagat tccagagttg
  1741 gctcagcagc ttagtgacag caaggcccta ggctggcatt ttcttggcct tcccgatggt
  1801 cccaagatga ctctcatggc ctcaaacatc acttcctcac atcctgtcag ggagaaagag
 1861 gcaagtgagc aacaacaatt tgtggtgttt ggatcatttg tcagagagga agaacgttcc
 1921 taaaaactcc gcctctgctg tttgacatcc tcatcctatt ccttggccat ggtggtatct
 1981 catggtcact cctctatctg ccactgtaaa gaggaactgg attgctatat tctgcttaga
 2041 cacatgagga tgcagcccac cttcccagaa catgtgcgga attagatttc tacaaacaca
 2101 tttgtcttgc ttctgcccaa ctctctcact agaatgcaca ttccataggg gcaaacattt
 2161 ttgtctattt tgttcacagc tatattctca acacctagaa gagtgacaga aattcaataa
 2221 atagttgtta agtgagcaaa tgaatgcatg aataaggaaa agggtacatg gctattgagt
 2281 aggtaaccag cagtgttgat cacccccaac agcatacaac tccagtctga tgaacatcat
 2341 gctactaagt ggccactcat cacccaagtc tctgacctta ctttttctct cttttctcc
 2401 agggagtgag ccataactgg cggctgctct tgcgccaatg
 (2) INFORMATION FOR SEQ ID NO:2711:
    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 1654 base pairs
      (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2711
    1 ccaatgagcc tccccaattc ctcctgcctc ttagaagaca agatgtgtga gggcaacaag
   61 accactatgg ccagccccca gctgatgccc ctggtggtgg tcctgagcac tatctgcttg
  121 gtcacagtag ggctcaacct gctggtgctg tatgccgtac ggagtgagcg gaagctccac
  181 actgtgggga acctgtacat cgtcagcctc tcggtggcgg acttgatcgt gggtgccgtc
  241 gtcatgccta tgaacatcct ctacctgctc atgtccaagt ggtcactggg ccgtcctctc
  301 tgcctctttt ggctttccat ggactatgtg gccagcacag cgtccatttt cagtgtcttc
  361 atcctgtgca ttgatcgcta ccgctctgtc cagcagcccc tcaggtacct taagtatcgt
  421 accaagaccc gagcctcggc caccattctg ggggcctggt ttctctcttt tctgtgggtt
  481 atteceatte taggetggaa teaetteatg cageagacet eggtgegeeg agaggacaag
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  601 tacctgccca ccttgctcat gctctggttc tatgccaaga tctacaaggc cgtacgacaa
  661 cactgccagc accgggagct catcaatagg tccctcctt ccttctcaga aattaagctg
  721 aggccagaga accccaaggg ggatgccaag aaaccaggga aggagtctcc ctgggaggtt
  781 ctgaaaagga agccaaaaga tgctggtggt ggatctgtct tgaagtcacc atcccaaacc
  841 cccaaggaga tgaaatcccc agttgtcttc agccaagagg atgatagaga agtagacaaa
  901 ctctactgct ttccacttga tattgtgcac atgcaggctg cggcagaggg gagtagcagg
  961 gactatgtag ccgtcaaccg gagccatggc cagctcaaga cagatgagca gggcctgaac
 1021 acacatgggg ccagcgagat atcagaggat cagatgttag gtgatagcca atccttctct
 1081 cgaacggact cagataccac cacagagaca gcaccaggca aaggcaaatt gaggagtggg
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1201 cagtatgtat ctgggttgca catgaaccgc gaaaggaagg ccgccaaaca gttgggtttt
1261 atcatggcag cettcatect etgetggate cettatttea tettetteat ggtcattgee
1321 ttctgcaaga actgttgcaa tgaacatttg cacatgttca ccatctggct gggctacatc
1381 aactccacac tgaaccccct catctacccc ttgtgcaatg agaacttcaa gaagacattc
1441 aagagaattc tgcatattcg ctcctaaggg aggctctgag gggatgcaac aaaatgatcc
1501 ttatgatgtc caacaaggaa atagaggacg aaggcctgtg tgttgccagg caggcacctg
1561 ggctttctgg aatccaaacc acagtcttag gggcttggta gtttggaaag ttcttaggca
1621 ccatagaaga acagcagatg gcggtgatca gcag
(2) INFORMATION FOR SEQ ID NO:2712:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1742 base pairs
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- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2712
- 1 atgageetee ecaatteete etgeetetta gaagacaaga tgtgtgaggg caacaagace
- 61 actatggcca gcccccagct gatgcccctg gtggtggtcc tgagcactat ctgcttggtc
- 121 acagtagggc tcaacctgct ggtgctgtat gccgtacgga gtgagcggaa gctccacact
- 181 gtggggaacc tgtacatcgt cagcctctcg gtggcggact tgatcgtggg tgccgtcgtc

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241 atgcctatga acatcctcta cctgctcatg tccaagtggt cactgggccg tcctctctgc
 301 ctcttttggc tttccatgga ctatgtggcc agcacagcgt ccattttcag tgtcttcatc
 361 ctgtgcattg atcgctaccg ctctgtccag cagcccctca ggtaccttaa gtatcgtacc
 421 aagacccgag cctcggccac cattctgggg gcctggtttc tctcttttct gtgggttatt
 481 cccattctag gctggaatca cttcatgcag cagacctcgg tgcgccgaga ggacaagtgt
 541 gagacagact totatgatgt cacctggttc aaggtcatga ctgccatcat caacttctac
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 661 tgccagcacc gggagctcat caataggtcc ctcccttcct tctcagaaat taagctgagg
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 961 tatgtagccg tcaaccggag ccatggccag ctcaagacag atgagcaggg cctgaacaca
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1741 aa
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(2) INFORMATION FOR SEQ ID NO:2713:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5836 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2713

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 121 tgggaggcag aggttgcagt gaaccgagat cgcgccattg cactccagtc tggcgacaga
 181 gcgagactcc gtctctaaat aaataaataa ataaatttag ccttctactc aagaacttat
 241 ctggctttgt cttaatgtaa aaataatttc tttttgctaa attattgaga gaaatttact
 301 atttattagt gtttatcagt tttctttaaa ctcaccactt tttgatgaat atgaaaatct
 361 aaaaacttgg ccgggcgcag tggctcacac ctgtaatctc agcactttgg gaggccaagg
 421 tgggcggatc atctgaggtc aggagttcaa gatcagcctg accaacatgg tgaaacccct
 481 tctctactaa aaatacaaaa attagctggg cgtggtggtg ggtgcctgta attgtagcta
 541 cttgggaggc tgaggcatga gaatcacttg aacccagaaa gcagaggttg cagtgagctg
 601 agatggtgcc actgcactcc agcctgggtg acagagtgag actctgtcct aaaaaaaaa
 661 aaaaaaaaa tggctgggcg tggtgcctca tgcctgtaat cccagcactt tgggagtcca
 721 gcgtgggtgg atcacctgag gtcaggagtt caagtccagc ctgaccaaca tggtgaaacc
 781 ccgtctctac taaaaaagta caaaaaaaat agccgggtgt ggtggcacac tcctgtaatc
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1021 accogacttg agtatcacca ataacagagg atacagtccg ttttcagtag agccttagta
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 2221 atagttgtta agtgagcaaa tgaatgcatg aataaggaaa agggtacatg gctattgagt
 2281 aggtaaccag cagtgttgat cacccccaac agcatacaac tccagtctga tgaacatcat
 2341 gctactaagt ggccactcat cacccaagtc tctgacctta ctttttctct cttttctcc
 2401 agggagtgag ccataactgg cggctgctct tgcgccaatg
     1 ccaatgagcc tccccaattc ctcctgcctc ttagaagaca agatgtgtga gggcaacaag
   61 accactatgg ccagccccca gctgatgccc ctggtggtgg tcctgagcac tatctgcttg
  121 gtcacagtag ggctcaacct gctggtgctg tatgccgtac ggagtgagcg gaagctccac
  181 actgtgggga acctgtacat cgtcagcctc tcggtggcgg acttgatcgt gggtgccgtc
  241 gtcatgccta tgaacatcct ctacctgctc atgtccaagt ggtcactggg ccgtcctctc
  301 tgcctctttt ggctttccat ggactatgtg gccagcacag cgtccatttt cagtgtcttc
 361 atcctgtgca ttgatcgcta ccgctctgtc cagcagcccc tcaggtacct taagtatcgt
  421 accaagaccc gagcctcggc caccattctg ggggcctggt ttctctcttt tctgtgggtt
 481 attcccattc taggctggaa tcacttcatg cagcagacct cggtgcgccg agaggacaag
 541 tgtgagacag acttctatga tgtcacctgg ttcaaggtca tgactgccat catcaacttc
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 661 cactgccagc accgggagct catcaatagg tccctccctt ccttctcaga aattaagctg
 721 aggccagaga accccaaggg ggatgccaag aaaccaggga aggagtctcc ctgggaggtt
 781 ctgaaaagga agccaaaaga tgctggtggt ggatctgtct tgaagtcacc atcccaaacc
 841 cccaaggaga tgaaatcccc agttgtcttc agccaagagg atgatagaga agtagacaaa
 901 ctctactgct ttccacttga tattgtgcac atgcaggctg cggcagaggg gagtagcagg
 961 gactatgtag ccgtcaaccg gagccatggc cagctcaaga cagatgagca gggcctgaac
1021 acacatgggg ccagcgagat atcagaggat cagatgttag gtgatagcca atcettetet
1081 cgaacggact cagataccac cacagagaca gcaccaggca aaggcaaatt gaggagtggg
1141 tctaacacag gcctggatta catcaagttt acttggaaga ggctccgctc gcattcaaga
1201 cagtatgtat ctgggttgca catgaaccgc gaaaggaagg ccgccaaaca gttgggtttt
1261 atcatggcag cottcatcot otgotggato cottatttca tottottcat ggtcattgco
1321 ttctgcaaga actgttgcaa tgaacatttg cacatgttca ccatctggct gggctacatc
1381 aactccacac tgaaccccct catctacccc ttgtgcaatg agaacttcaa gaagacattc
1441 aagagaattc tgcatattcg ctcctaaggg aggctctgag gggatgcaac aaaatgatcc
1501 ttatgatgtc caacaaggaa atagaggacg aaggcctgtg tgttgccagg caggcacctg
1561 ggctttctgg aatccaaacc acagtcttag gggcttggta gtttggaaag ttcttaggca
1621 ccatagaaga acagcagatg gcggtgatca gcag
    1 atgageetee ccaatteete etgeetetta gaagacaaga tgtgtgaggg caacaagace
  61 actatggcca gcccccagct gatgcccctg gtggtggtcc tgagcactat ctgcttggtc
 121 acagtagggc tcaacctgct ggtgctgtat gccgtacgga gtgagcggaa gctccacact
 181 gtggggaacc tgtacatcgt cagcctctcg gtggcggact tgatcgtggg tgccgtcgtc
 241 atgcctatga acatecteta ectgeteatg tecaagtggt caetgggeeg teetetetge
 301 ctcttttggc tttccatgga ctatgtggcc agcacagcgt ccattttcag tgtcttcatc
 361 ctgtgcattg atcgctaccg ctctgtccag cagcccctca ggtaccttaa gtatcgtacc
 421 aagacccgag cctcggccac cattctgggg gcctggtttc tctcttttct gtgggttatt
 481 cccattctag gctggaatca cttcatgcag cagacctcgg tgcgccgaga ggacaagtgt
 541 gagacagact tctatgatgt cacctggttc aaggtcatga ctgccatcat caacttctac
 601 ctgcccacct tgctcatgct ctggttctat gccaagatct acaaggccgt acgacaacac
 661 tgccagcacc gggagctcat caataggtcc ctcccttcct tctcagaaat taagctgagg
 721 ccagagaacc ccaaggggga tgccaagaaa ccagggaagg agtctccctg ggaggttctg
 781 aaaaggaagc caaaagatgc tggtggtgga tctgtcttga agtcaccatc ccaaaccccc
 841 aaggagatga aatccccagt tgtcttcagc caagaggatg atagagaagt agacaaactc
 901 tactgctttc cacttgatat tgtgcacatg caggctgcgg cagaggggag tagcagggac
 961 tatgtagccg tcaaccggag ccatggccag ctcaagacag atgagcaggg cctgaacaca
1021 catggggcca gcgagatatc agaggatcag atgttaggtg atagccaatc cttctctcga
1081 acggactcag ataccaccac agagacagca ccaggcaaag gcaaattgag gagtgggtct
1141 aacacaggcc tggattacat caagtttact tggaagaggc teegetegca ttcaagacag
1201 tatgtatctg ggttgcacat gaaccgcgaa aggaaggccg ccaaacagtt gggttttatc
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1261 atggcagect teatectetg etggatecet tatteatet tetteatggt eattgeette 1321 tgeaagaact gttgeaatga acatttgeae atgtteacea tetggetggg etacateaac 1381 teeacactga acceeteat etacecettg tgeaatgaga actteaagaa gacatteaag 1441 agaattetge atattegete etaagggagg etetgagggg atgeaacaaa atgateetta 1501 tgatgteeaa eaaggaaata gaggaegaag geetgtgtt tgeeaggeag geacetggge 1561 tttetggaat eeaaaceaca gtettagggg ettggtagtt tggaaagtte ttaggeaeca 1621 tagaagaaca geagatggeg gtgateagea gagagattga actttgagga ggaageagaa 1681 tetttgeaag aaagteagae etgtteettg taaetgggt eaaaaagaaa aaaaaaaaa 1741 aa
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- (2) INFORMATION FOR SEQ ID NO:2714:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3579 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2714
- 1 cacgcgtccg cgagaaggag gactcgcaag cctcggcggc ccggaaccgg cctcggactg 61 tcgacggaac ctgaggccgc ttgccctccc gccccatgga gcggcccccg gggctgcggc 121 cgggcgcggg cgggccctgg gagatgcggg agcggctggg caccggcggc ttcgggaacg 181 tctgtctgta ccagcatcgg gaacttgatc tcaaaatagc aattaagtct tgtcgcctag 241 agctaagtac caaaaacaga gaacgatggt gccatgaaat ccagattatg aagaagttga 301 accatgccaa tgttgtaaag gcctgtgatg ttcctgaaga attgaatatt ttgattcatg 361 atgtgcctct tctagcaatg gaatactgtt ctggaggaga tctccgaaag ctgctcaaca 421 aaccagaaaa ttgttgtgga cttaaagaaa gccagatact ttctttacta agtgatatag 481 ggtctgggat tcgatatttg catgaaaaca aaattataca tcgagatcta aaacctgaaa 541 acatagttct tcaggatgtt ggtggaaaga taatacataa aataattgat ctgggatatg 601 ccaaagatgt tgatcaagga agtctgtgta catcttttgt gggaacactg cagtatctgg 661 ccccagagct ctttgagaat aagccttaca cagccactgt tgattattgg agctttggga 721 ccatggtatt tgaatgtatt gctggatata ggcctttttt gcatcatctg cagccattta 781 cctggcatga gaagattaag aagaaggatc caaagtgtat atttgcatgt gaagagatgt 841 caggagaagt tcggtttagt agccatttac ctcaaccaaa tagcctttgt agtttaatag 901 tagaacccat ggaaaactgg ctacagttga tgttgaattg ggaccctcag cagagaggag 961 gacctgttga ccttactttg aagcagccaa gatgttttgt attaatggat cacattttga 1021 atttgaagat agtacacatc ctaaatatga cttctgcaaa gataatttct tttctgttac 1081 cacctgatga aagtcttcat tcactacagt ctcgtattga gcgtgaaact ggaataaata 1141 ctggttctca agaacttctt tcagagacag gaatttctct ggatcctcgg aaaccagcct 1201 ctcaatgtgt tctagatgga gttagaggct gtgatagcta tatggtttat ttgtttgata 1261 aaagtaaaac tgtatatgaa gggccatttg cttccagaag tttatctgat tgtgtaaatt 1321 atattgtaca ggacagcaaa atacagcttc caattataca gctgcgtaaa gtgtgggctg 1381 aagcagtgca ctatgtgtct ggactaaaag aagactatag caggctcttt cagggacaaa 1441 gggcagcaat gttaagtctt cttagatata atgctaactt aacaaaaatg aagaacactt 1501 tgatctcagc atcacaacaa ctgaaagcta aattggagtt ttttcacaaa agcattcagc 1561 ttgacttgga gagatacagc gagcagatga cgtatgggat atcttcagaa aaaatgctaa 1621 aagcatggaa agaaatggaa gaaaaggcca tccactatgc tgaggttggt gtcattggat 1681 acctggagga tcagattatg tctttgcatg ctgaaatcat ggagctacag aagagcccct 1741 atggaagacg tcagggagac ttgatggaat ctctggaaca gcgtgccatt gatctatata 1801 agcagttaaa acacagacct tcagatcact cctacagtga cagcacagag atggtgaaaa 1861 tcattgtgca cactgtgcag agtcaggacc gtgtgctcaa ggagctgttt ggtcatttga 1921 gcaagttgtt gggctgtaag cagaagatta ttgatctact ccctaaggtg gaagtggccc 1981 tcagtaatat caaagaagct gacaatactg tcatgttcat gcagggaaaa aggcagaaag 2041 aaatatggca tctccttaaa attgcctgta cacagagttc tgcccggtcc cttgtaggat 2101 ccagtctaga aggtgcagta acccctcaga catcagcatg gctgcccccg acttcagcag 2161 aacatgatca ttctctgtca tgtgtggtaa ctcctcaaga tggggagact tcagcacaaa 2221 tgatagaaga aaatttgaac tgccttggcc atttaagcac tattattcat gaggcaaatg 2281 aggaacaggg caatagtatg atgaatcttg attggagttg gttaacagaa tgagttgtca 2341 cttgttcact gtccccaaac ctatggaagt tgttgctata catgttggaa atgtgtttt 2401 cccccatgaa accattcttc agacatcagt caatggaaga aatggctatg aacagaaact 2461 acatttctac tatgatcaga agaacatgat tttacaagta taacagtttt gagtaattca 2521 agcctctaaa cagacaggaa tttagaaaaa gtcaatgtac ttgtttgaat atttgtttta 2581 ataccacage tatttagaag catcatcacg acacatttgc etteagtett ggtaaaacat 2641 tacttattta actgattaaa aataccttct atgtattagt gtcaactttt aacttttggg

- (2) INFORMATION FOR SEQ ID NO:2715:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3058 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2715

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1 gcccgcgtta agattcccgc attttaatgt tttcaggggg gtgtcatagc cccgggtttg
  61 geogeoccag eccegcette eccegcecegg ggagecegee ecctteeceg egteectgee
 121 gacagagtta gcacgacatc agtatgagct ggtcaccttc cctgacaacg cagacatgtg
 181 gggcctggga aatgaaagag cgccttggga cagggggatt tggaaatgtc atccgatggc
 241 acaatcagga aacaggtgag cagattgcca tcaagcagtg ccggcaggag ctcagcccc
 301 ggaaccgaga gcggtggtgc ctggagatcc agatcatgag aaggctgacc caccccaatg
 361 tggtggctgc ccgagatgtc cctgagggga tgcagaactt ggcgcccaat gacctgccc
 421 tgctggccat ggagtactgc caaggaggag atctccggaa gtacctgaac cagtttgaga
 481 actgctgtgg tctgcgggaa ggtgccatcc tcaccttgct gagtgacatt gcctctgcgc
 541 ttagatacct tcatgaaaac agaatcatcc atcgggatct aaagccagaa aacatcgtcc
 601 tgcagcaagg agaacagagg ttaatacaca aaattattga cctaggatat gccaaggagc
 661 tggatcaggg cagtetttge acateatteg tggggaeeet geagtaeetg geeecagage
 721 tactggagca gcagaagtac acagtgaccg tcgactactg gagcttcggc accetggect
 781 ttgagtgcat cacgggcttc cggcccttcc tccccaactg gcagcccgtg cagtggcatt
 841 caaaagtgcg gcagaagagt gaggtggaca ttgttgttag cgaagacttg aatggaacgg
 901 tgaagttttc aagctcttta ccctacccca ataatcttaa cagtgtcctg gctgagcgac
 961 tggagaagtg gctgcaactg atgctgatgt ggcacccccg acagaggggc acggatccca
1021 cgtatgggcc caatggctgc ttcaaggccc tggatgacat cttaaactta aagctggttc
1081 atatettgaa catggteacg ggeaceatee acacetacee tgtgacagag gatgagagte
1141 tgcagagctt gaaggccaga atccaacagg acacgggcat cccagaggag gaccaggagc
1201 tgctgcagga agcgggcctg gcgttgatcc ccgataagcc tgccactcag tgtatttcag
1261 acggcaagtt aaatgagggc cacacattgg acatggatct tgtttttctc tttgacaaca
1321 gtaaaatcac ctatgagact cagatctccc cacggcccca acctgaaagt gtcagctgta
1381 tccttcaaga gcccaagagg aatctcgcct tcttccagct gaggaaggtg tggggccagg
1441 tctggcacag catccagacc ctgaaggaag attgcaaccg gctgcagcag ggacagcgag
1501 ccgccatgat gaatctcctc cgaaacaaca gctgcctctc caaaatgaag aattccatgg
1561 cttccatgtc tcagcagctc aaggccaagt tggatttctt caaaaccagc atccagattg
1621 acctggagaa gtacagcgag caaaccgagt ttgggatcac atcagataaa ctgctgctgg
1681 cctggaggga aatggagcag gctgtggagc tctgtgggcg ggagaacgaa gtgaaactcc
1741 tggtagaacg gatgatggct ctgcagaccg acattgtgga cttacagagg agccccatgg
1801 gccggaagca ggggggaacg ctggacgacc tagaggagca agcaagggag ctgtacagga
1861 gactaaggga aaaacctcga gaccagcgaa ctgagggtga cagtcaggaa atggtacggc
1921 tgctgcttca ggcaattcag agcttcgaga agaaagtgcg agtgatctat acgcagctca
1981 gtaaaactgt ggtttgcaag cagaaggcgc tggaactgtt gcccaaggtg gaagaggtgg
2041 tgagcttaat gaatgaggat gagaagactg ttgtccggct gcaggagaag cggcagaagg
2101 agctctggaa tctcctgaag attgcttgta gcaaggtccg tggtcctgtc agtggaagcc
2161 cggatagcat gaatgcctct cgacttagcc agcctgggca gctgatgtct cagccctcca
2221 cggcctccaa cagcttacct gagccagcca agaagagtga agaactggtg gctgaagcac
2281 ataacctctg caccctgcta gaaaatgcca tacaggacac tgtgagggaa caagaccaga
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2341 gtttcacggc cctagactg agctggttac agacggaaga agaagagcac agctgcctgg
2401 agcaggcctc atgatgtgg gggactcgac cccctgacat ggggcagccc atagcaggcc
2461 ttgtgcagtg gggggactcg acccctgac atggggctgc ctggagcagg ccgcgtgacg
2521 tggggctgcc tggccgcgc tctcacatgg tggttcctgc tgcactgatg gcccaggggt
2581 ctctggtatc cagatggagc tctcgcttcc tcagcagctg tgactttcac ccaggaccca
2641 ggacgcagcc ctccgtggc actgccggc ccttgtctgc acactggagg tcctccatta
2701 cagaggccca gcgcacatcg ctggccccac aaacgttcag gggtacagcc atggcagctc
2761 cttcctctgc cgtgagaaaa gtgcttggag tacggtttgc cacacacgtg actggacagt
2821 gtccaattca aatctttcag ggcagagtcc gagcagcgct tggtgacagc ctgtcctct
2881 ctgctctca aaggccctgc tccctgtcct ctctcacttt acagcttgtg tttcttctgg
2941 attcagcttc tcctaaacag acagtttaat tatagttgcg gcctggcccc atcctcactt
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(2) INFORMATION FOR SEQ ID NO:2716:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1994 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2716

1 ggcacgagca tggcccttgt gatccaggtg gggaaactaa ggcccagaga agtgaggacc 61 ccgcagacta tcaatcccag tctcttcccc tcactccctg tgaagctctc cagcatcatc 121 gaggtcccat cagcccttgc cctgttggat gaataggcac ctctggaaga gccaactgtg 181 tgagatggtg cagcccagtg gtggcccggc agcagatcag gacgtactgg gcgaagagtc 241 teetetgggg aagecageea tgetgeacet geetteagaa cagggegete etgagaeeet 301 ccagcgctgc ctggaggaga atcaagagct ccgagatgcc atccggcaga gcaaccagat 361 tetgegggag egetgegagg agettetgea ttteeaagee ageeagaggg aggagaagga 421 gttcctcatg tgcaagttcc aggaggccag gaaactggtg gagagactcg gcctggagaa 481 gctcgatctg aagaggcaga aggagcaggc tctgcgggag gtggagcacc tgaagagatg 541 ccagcagcag atggctgagg acaaggcctc tgtgaaagcc caggtgacgt ccttgctcgg 601 ggagctgcag gagagccaga gtcgcttgga ggctgccact aaggaatgcc aggctctgga 661 gggtcgggcc cgggcggcca gcgagcaggc gcggcagctg gagagtgagc gcgaggcgct 721 gcagcagcag cacagcgtgc aggtggacca gctgcgcatg cagggccaga gcgtggaggc 781 cgcgctccgc atggagcgcc aggccgcctc ggaggagaag aggaagctgg cccagttgca 841 ggtggcctat caccagctct tccaagaata cgacaaccac atcaagagca gcgtggtggg 901 cagtgagcgg aagcgaggaa tgcagctgga agatctcaaa cagcagctcc agcaggccga 961 ggaggccctg gtggccaaac aggaggtgat cgataagctg aaggaggagg ccgagcagca 1021 caagattgtg atggagaccg ttccggtgct gaaggcccag gcggatatct acaaggcgga 1081 cttccaggct gagaggcagg cccgggagaa gctggccgag aagaaggagc tcctgcagga 1141 gcagctggag cagctgcaga gggagtacag caaactgaag gccagctgtc aggagtcggc 1201 caggatcgag gacatgagga agcggcatgt cgaggtctcc caggccccct tgcccccgc 1261 ccctgcctac ctctcctctc ccctggccct gcccagccag aggaggagcc cccccgagga 1321 gccacctgac ttctgctgtc ccaagtgcca gtatcaggcc cctgatatgg acaccctgca 1381 gatacatgtc atggagtgca ttgagtaggg ccggccagtg caaggccact gcctgcccga 1441 ggacgtgccc gggaccgtgc agtctgcgct ttcctctccc gcctgcctag cccaggatga 1501 agggctgggt ggccacaact gggatgccac ctggagcccc acccaggagc tggccgcggc 1561 accttacgct tcagctgttg atccgctggt cccctctttt ggggtagatg cggccccgat 1621 caggectgac tegetgetet ttttgtteee ttetgtetge tegaaceact tgeeteggge 1681 taatccctcc ctcttcctcc acceggcact ggggaagtca agaatggggc ctggggctct 1741 cagggagaac tgcttcccct ggcagagctg ggtggcagct cttcctccca ccggacaccg 1801 accegecege egetgtgeee tgggagtget gecetettae catgeacaeg ggtgetetee 1861 ttttgggctg catgctattc cattttgcag ccagaccgat gtgtatttaa ccagtcacta 1921 ttgatggaca tttgggttgt ttcccatctt tttgttacca taaataatgg catagtaaaa 1981 aaaaaaaaaa aaaa

(2) INFORMATION FOR SEQ ID NO:2717:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8631 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2717

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(2) INFORMATION FOR SEQ ID NO:2718:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1589 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2718

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(2) INFORMATION FOR SEQ ID NO:2719:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 141589 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

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TOUSUI CALCACICE	c aycaaacta	t cacaaddaca	aaaaaccaa:	a cactacatat	- tataaataat
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TOUGHT COUNTY	y yaryayqqq	a utuuuaaaaa	I atagcattac	r mamatatan	1 + 12+ 4+ 1 - 1
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TOTAL COMCCUINCE	acaduaaaca	aacacrrcac	anathmates	++ ++ ~+ ~+ ~ ~	
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13536	1 ctgggagct	r tatcacator	gettaaatee	attetteaa	teatttacte	cttctgagcc
13542	1 cttgggcta	t ttggttaatt	tctctgaaco	ttaatttaat	ccacttactt	tggaaataat
13548	1 aatagcaaci	t tottgacage	attataataa	anattanatt	. Cattigada	aaatgcttag
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13560	1 gattatett	gacacatagi	. Laatactcaa	ggaattagco	: acatcactat	catcatcact
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13570	i aaaaytaaai	cagatcatgt	: tactctattg	r cttgaagtct	: atcccatttg	attaagaata
133/2	ı acaacctaai	: cctctqtqqa	i tactacetec	: ttcaccadco	tateteatac	tactatacat
13370	i accellage	cctcaaacat	accaaactct	. cctqtcccao	. agtcttttco	taattttcc
12204	ı aldıyectaç	y gatgettete	: tctcctattt	tatatacett	getaactect	acttactate
12230	1 LLLCagttct	l cagcttaaqa	gttatatctt	catgataaca	ttctttdata	tccttaccct
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13614	1 catttattt	acccctttgt	ctccadaacc	taataaaata	ggtaaggegg	agallylyly
13620	1 caattaatat	tttacacaga	raaaaaatta	ggcagaacg	toccacacac	taactgcttc
13626	l agaggtaaac	taaacacaga	ttaattatat	totate	Ladacaaata	taactgcttc
13632	l ttttaaatot	tgggcacatc	aratattat	tatgtgatat	atgatgcttt	ttgattgttt
13638	1 ataataatta	tctacaaggt	agatattgtt	agaggtccta	agttacttga	tgtgttactt
13644	1 stassaces	tattctttc	tttttattca	tttaggcaga	gccttaagca	ccagtccata
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137041	tggtatccca	tttatgaaac	attatattct	222222	gaaaagttag	agigitgaat
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137161	attttattta	tcctgtaaca	trataca	tagtaccttt	tgctttcaga	ctagccctca
137221	tototatica	actatagtag	tectaaatta	taagattaat	agtactcagg	acctaacagt
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101041	. Lyccilaycc	tectgagtag	ctgggattat	aggcgcctgc	caccacacat	aaat aat tet
12/401	. iilagtagag	acggggtttc	accatattaa	ccaggetggt	ctcgaactcc	taacctcaaa
13/401	Lygiccaccc	goottaacct	cccaaagtgc	taggattaca	aatataaacc	200000000
13/321	geetatatgt	aataatttta	atgggaccat	gaattgaata	tttcttcctt	asstages at
12/201	gacatageee	cttctattqt	acatctgcaa	getgatacag	ggaattcctt	tatacetaca
12/041	Cidilocotg	ccagtcagct	atgggggtga	aagtgtaggg	atteateeaa	atactasasa
12//01	rygragcaac	tcctagggca	gggctgatct	ggaaggacag	accetagggg	aggatagaac
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137821	aactttttc	ttcttgcttc	tcttctttat	ctcacctagg	agtagtgtta	ggaaggggct
137881	teetttttee	ctttcctttt	ttatactas	ttoattaat	colococttg	Latecettet
137941	accttactaa	220000000	ttattt	ttcattcgtg	catcettet	gattcctctt
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139861 ctaattccta cttatgttta tataatgctt ttagaaattt gtattattca gaaaataaac
139921 atatactatt gtatctgttg cctacactta gattttattg cctgctatat ttaaatttta
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140041 ggccaaggca gaaggattgc ttgagcccag gagtttgaga ccagactgag caacacaggg
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140641 ttgttggcat taagatgcaa actttgtttt aaacagttga gtaaatcaaa gatgggactg
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140821 atttcctctt gaatgagaga gaaaatttaa agtaagcaaa caaataagtt gtgtgtcacc
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#### (2) INFORMATION FOR SEQ ID NO:2720:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 533 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2720

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(2) INFORMATION FOR SEO ID NO: 2721: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 4740 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2721 1 gaatteegtg gtteeteagt ggtgeetgea acceetggtt caceteette caggttetgg 61 ctccttccag ccatggctct cagagtcctt ctgttaacag ccttgacctt atgtcatggg 121 ttcaacttgg acactgaaaa cgcaatgacc ttccaagaga acgcaagggg cttcgggcag 181 agcgtggtcc agcttcaggg atccagggtg gtggttggag ccccccagga gatagtggct 241 gccaaccaaa ggggcagcct ctaccagtgc gactacagca caggctcatg cgagcccatc 301 cgcctgcagg tccccgtgga ggccgtgaac atgtccctgg gcctgtccct ggcagccacc 361 accagecece eteagetget ggeetgtggt eccaeegtge accagaettg eagtgagaae 421 acgtatgtga aagggctctg cttcctgttt ggatccaacc tacggcagca gccccagaag 481 ttcccagagg ccctccgagg gtgtcctcaa gaggatagtg acattgcctt cttgattgat 541 ggctctggta gcatcatccc acatgacttt cggcggatga aggagtttgt ctcaactgtg 601 atggagcaat taaaaaagtc caaaaccttg ttctctttga tgcagtactc tgaagaattc 661 cggattcact ttaccttcaa agagttccag aacaacccta acccaagatc actggtgaag 721 ccaataacgc agctgcttgg gcggacacac acggccacgg gcatccgcaa agtggtacga 781 gagctgttta acatcaccaa cggagcccga aagaatgcct ttaagatcct agttgtcatc 841 acggatggag aaaagtttgg cgatcccttg ggatatgagg atgtcatccc tgaggcagac 901 agagaggag tcattcgcta cgtcattggg gtgggagatg ccttccgcag tgagaaatcc 961 cgccaagage ttaataccat cgcatccaag ccgcctcgtg atcacgtgtt ccaggtgaat 1021 aactttgagg ctctgaagac cattcagaac cagcttcggg agaagatctt tgcgatcgag 1081 ggtactcaga caggaagtag cagctccttt gagcatgaga tgtctcagga aggcttcagc 1141 gctgccatca cctctaatgg ccccttgctg agcactgtgg ggagctatga ctgggctggt 1201 ggagtettte tatatacate aaaggagaaa agcacettea teaacatgae cagagtggat 1261 tcagacatga atgatgctta cttgggttat gctgccgcca tcatcttacg gaaccgggtg 1321 caaagcctgg ttctgggggc acctcgatat cagcacatcg gcctggtagc gatgttcagg 1381 cagaacactg gcatgtggga gtccaacgct aatgtcaagg gcacccagat cggcgcctac 1441 ttcggggcct ccctctgctc cgtggacgtg gacagcaacg gcagcaccga cctggtcctc 1501 atcggggccc cccattacta cgagcagacc cgagggggcc aggtgtccgt gtgccccttg 1561 cccagggggc agagggctcg gtggcagtgt gatgctgttc tctacgggga gcagggccaa 1621 ccctggggcc gctttggggc agccctaaca gtgctggggg acgtaaatgg ggacaagctg 1681 acggacgtgg ccattggggc cccaggagag gaggacaacc ggggtgctgt ttacctgttt 1741 cacggaacct caggatctgg catcagcccc teccatagcc ageggatagc aggetecaag 1801 ctctctccca ggctccagta ttttggtcag tcactgagtg ggggccagga cctcacaatg 1861 gatggactgg tagacctgac tgtaggagcc caggggcacg tgctgctgct caggtcccag 1921 ccagtactga gagtcaaggc aatcatggag ttcaatccca gggaagtggc aaggaatgta 1981 tttgagtgta atgatcaggt ggtgaaaggc aaggaagccg gagaggtcag agtctgcctc 2041 catgtccaga agagcacacg ggatcggcta agagaaggac agatccagag tgttgtgact 2101 tatgacetgg ctctggactc cggccgccca cattcccgcg ccgtcttcaa tgagacaaag 2161 aacagcacac gcagacagac acaggtcttg gggctgaccc agacttgtga gaccctgaaa 2221 ctacagttgc cgaattgcat cgaggaccca gtgagcccca ttgtgctgcg cctgaacttc 2281 tctctggtgg gaacgccatt gtctgctttc gggaacctcc ggccagtgct ggcggaggat 2341 gctcagagac tcttcacagc cttgtttccc tttgagaaga attgtggcaa tgacaacatc 2401 tgccaggatg acctcagcat caccttcagt ttcatgagcc tggactgcct cgtggtgggt 2461 gggccccggg agttcaacgt gacagtgact gtgagaaatg atggtgagga ctcctacagg 2521 acacaggtca cettettett eccgettgae etgteetace ggaaggtgte eacacteeag 2581 aaccageget cacagegate etggegeetg geetgtgagt etgeeteete cacegaagtg 2641 tctggggcct tgaagagcac cagctgcagc ataaaccacc ccatcttccc ggaaaactca 2701 gaggtcacct ttaatatcac gtttgatgta gactctaagg cttcccttgg aaacaaactg 2761 ctcctcaagg ccaatgtgac cagtgagaac aacatgccca gaaccaacaa aaccgaattc 2821 caactggagc tgccggtgaa atatgctgtc tacatggtgg tcaccagcca tggggtctcc 2881 actaaatatc tcaacttcac ggcctcagag aataccagtc gggtcatgca gcatcaatat 2941 caggtcagca acctggggca gaggagcctc cccatcagcc tggtgttctt ggtgcccgtc 3001 cggctgaacc agactgtcat atgggaccgc ccccaggtca ccttctccga gaacctctcg 3061 agtacgtgcc acaccaagga gcgcttgccc tctcactccg actttctggc tgagcttcgg 3121 aaggcccccg tggtgaactg ctccatcgct gtctgccaga gaatccagtg tgacatcccg

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3361 aaagtggagc cgttcgaggt ccccaacccc ctgccgctca tcgtgggcag ctctgtcggg
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### (2) INFORMATION FOR SEQ ID NO:2722:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1774 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2722

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(2) INFORMATION FOR SEQ ID NO:2723:
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     (A) LENGTH: 7047 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2723
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2821	. caactggag	c tgccggtgaa	a atatgctgt	c tacatggtgc	r tcaccageca	tagaatetee
2881	. actaaatat	c tcaacttcad	c ggcctcaga	g aataccagto	gggtcatgca	gcatcaatat
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(2) INFORMATION FOR SEQ ID NO:2724:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 779 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2724
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  121 gtgggcggat cacctgaggt cgggagttcg aggccagcct gcccaacatg gagaaaccct
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(2) INFORMATION FOR SEQ ID NO:2725:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1598 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2725
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- (2) INFORMATION FOR SEQ ID NO:2726:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs

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(B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2726
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   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 305 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2727
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  301 gcgtc
(2) INFORMATION FOR SEQ ID NO:2728:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 353 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2728
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(2) INFORMATION FOR SEQ ID NO:2729:
   (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 608 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2729
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# (2) INFORMATION FOR SEQ ID NO:2730:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1546 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

601 aaaatgat

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2730
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(2) INFORMATION FOR SEQ ID NO:2731:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 5539 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2731
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(2) INFORMATION FOR SEQ ID NO:2732:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1539 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2732
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(2) INFORMATION FOR SEQ ID NO:2733:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 3160 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2733
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## (2) INFORMATION FOR SEQ ID NO:2734:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 855 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2734
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(2) INFORMATION FOR SEQ ID NO:2735:
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     (D) TOPOLOGY: linear
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(2) INFORMATION FOR SEQ ID NO:2736:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 860 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2736
   1 aaaaggccgg cggaacagcc agaggagcag agaggcaaag aaacattgtg aaatctccaa
   61 ctcttaacct tcaacatgaa agtctctgca gtgcttctgt gcctgctgct catgacagca
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 661 gggtttgtat tcggttccca ggggttgaga gcatgcctgt gggagtcatg gacatgaagg
 721 gatgctgcaa tgtaggaagg agagctcttt gtgaatgtga ggtgttgcta aatatgttat
 781 tgtggaaaga tgaatgcaat agtaggactg ctgacatttt gcagaaaata cattttattt
 841 aaaatctcca aaaaaaaaa
(2) INFORMATION FOR SEQ ID NO:2737:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 5700 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2737
   1 aattaaccct cactaaaggg agtcgactcg atcccccgc ctcagcccct tttttctttt
  61 ttttttcatt ttcagttcag gagagtttta gcttaattat aggctacaga accagctttg
 121 ggcttcatct atcctttcta atatttactg tttcctattt ctctaatcct agctctttat
 181 ttcttccctt tactttcact gggcttattt tgctatagtg gaatgcagag ggatgagtat
 241 tccaggaagg cacaaaact gtgccaagtc ttggagctag ggatgagtgg gaaagggaca
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 361 caggaggage ccaggaatgg gccaaacace teacttettt getetgaggg ccaececage
 421 cctcccatca acagctctag aaacccaatg gtccttcctg gaaacacggg gcctgcatca
 481 atcagaggtg tttgaaccat gtccctctgg gcctgagggg cagaagggga cacaatatgt
 541 aatgtaagga gcccctgtca tcagaaatct gacttaatct gttttcagat attagacttc
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601 cacataaaag ttgacttgga aaaagacttc tgctgctaaa caaaagttga aactgccttg
  661 gtgataaaat ataagcagac cagetttete ttetagettt eeeteteatt teeeataaga
  721 ttttggtcaa gttatttaat ctctctgcat ccgtttcctc ttctatgaaa tgggcatgat
 841 tctgtctcta cgggagtgaa ttttcattgt ttttctcttt cctgttggag aaagtaagaa
 901 gaaaacagcg cctttatggc ttcccatggt gaatggctgg ggcgcgtctg tgtccctgtc
 961 teetetetgg eteettgtgg eetgaacage cagaaggaag ceatgecatg etgttteage
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1561 gtatttttag tagagaaggg gtttcactat gttggccagg ctggtctcaa actcttgacc
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1861 tagggcettt tetttgacet catetgateg teccaaacte tgeagatetg gaceacacee
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1981 tgcagctgag cctttgagah cctgaggcac atgtcacagg tcccacctca cctcagggtc
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2101 teccatacag atgetecetg etgtatteaa getgagaaaa geetaacaca teeteaaagt
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2401 taggatgaga tctagccaga ctgtgtgatg caaaatcctc caattttggc tgcacaacag
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2701 ttccatctaa ctgtgccaga tctccttcct ccacagcttc agaaccaaac tgggcaagga
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3001 tggctattat ttgacttgtt gctggtttgg agtttatttg agtattgctg atcttttcta
3121 tgctggcagt gggtttgtat tcggttccca ggggttgagc
   1 ggcaaagaaa cattgtgaaa tctccaactc ttaaccttca acatgaaagt ctctgcagtg
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121 gcactcaacg tcccatctac ttgctgcttc acatttagca gtaagaagat ctccttgcag
181 aggctgaaga gctatgtgat caccaccagc aggtgtcccc agaaggctgt catcttcaga
241 accaaactgg gcaaggagat ctgtgctgac ccaaaggaga agtgggtcca gaattatatg
301 aaacacctgg gccggaaagc tcacaccctg aagacttgaa ctctgctacc cctactgaaa
361 tcaagctgga gtacgtgaaa tgacttttcc attctcctct ggcctcctct tctatgcttt
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481 tatgtgttaa gtaatattgg ctattatttg acttgttgct ggtttggagt ttatttgagt
541 attgctgatc ttttctatag caaggccttg agcaagtagg ttgctgtctc taagccccct
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661 tgcctgtggg agtcatggac atgaagggat gccgcaatgt aggaaggaga gctctttgtg
721 aatgtgaggt gttgctaaat atgttattgt ggaaagatga atgcaatagt aggactgctg
841 aagaaaaaaa aaaaa
  1 acattgtgaa atctccaact cttaaccttc aacatgaaag tctctgcagt gcttctgtgc
 61 ctgctgctca tgacagcagc tttcaacccc cagggacttg ctcagccaga tgcactcaac
121 gtcccatcta cttgctgctt cacatttagc agtaagaaga tctccttgca gaggctgaag
181 agctatgtga tcaccaccag caggtgtccc cagaaggctg tcatcttcag aaccaaactg
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241 ggcaaggaga totgtgotga occaaaggag aagtgggtoo agaattatat gaaacacotg
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361 agtacgtgaa atgacttttc catteteete tggeeteete ttetatgett tggaataett
421 ctaccataat tttcaaatag gatgcattcg gttttgtgat tcaaaatgta ctatgtgtta
481 agtaatattg gctattattt gacttgttgc tggtttggag tttatttgag tattqctqat
541 cttttctaaa gcaaggcctt gagcaagtag gttgctgtct ctaagccccc ttcccttcca
601 ctatgagctg ctggcagtgg gttgtattcg gttcccaggg gttgagagca tgcctgtggg
661 agtcatggac atgaagggat gctgcaatgt aggaaggaga gctctttgtg aatgtgaggt
721 tgttgctaaa ttattgttta ttgtggaaag atgaatgcaa tagtaggact gctgacattt
781 tgcagaaaat acattttatt taaaatctcc taaaaaaaaa aaaaa
 1 aaaaggccgg cggaacagcc agaggagcag agaggcaaag aaacattgtg aaatctccaa
 61 ctcttaacct tcaacatgaa agtctctgca gtgcttctgt gcctgctgct catgacagca
121 gctttcaacc cccagggact tgctcagcca gatgcactca acgtcccatc tacttgctgc
181 ttcacattta gcagtaagaa gatctccttg cagaggctga agagctatgt gatcaccacc
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361 ctgaagactt gaactctgct acccctactg aaatcaagct ggagtacgtg aaatgacttt
421 tocattotoc totggcotoc tottotatgo tttggaatac ttotaccata attttcaaat
481 aggatgcatt cggttttgtg attcaaaatg tactatgtgt taagtaatat tggctattat
541 ttgacttgtt gctggtttgg agtttatttg agtattgctg atcttttcta aagcaaggcc
661 gggtttgtat tcggttccca ggggttgaga gcatgcctgt gggagtcatg gacatgaagg
721 gatgctgcaa tgtaggaagg agagctcttt gtgaatgtga ggtgttgcta aatatgttat
781 tgtggaaaga tgaatgcaat agtaggactg ctgacatttt gcagaaaata cattttattt
841 aaaatctcca aaaaaaaaaa
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#### (2) INFORMATION FOR SEQ ID NO:2738:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2248 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2738

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1 cgcccgggca ggtcctctgc ctagcactgc tccccaaagg ctcccagaaa tctcaggtca
  61 gaggcacgga cagcctctgg agctctcgtc tggtgggacc atgaactgcc agcagctgtg
 121 gctgggcttc ctactcccca tgacagtctc aggccgggtc ctggggcttg cagaggtggc
 181 gcccgtggac tacctgtcac aatatgggta cctacagaag cctctagaag gatctaataa
 241 cttcaagcca gaagatatca ccgaggctct gagagctttt caggaagcat ctgaacttcc
 301 agtotcaggt cagctggatg atgccacaag ggcccgcatg aggcagcotc gttgtggcct
 361 agaggatece tteaaceaga agaceettaa atacetgttg etgggeeget ggagaaagaa
 421 gcacctgact ttccgcatct tgaacctgcc ctccaccctt ccaccccaca cagcccgggc
 481 agccctgcgt caagccttcc aggactggag caatgtggct cccttgacct tccaagaggt
 541 gcaggetggt gcggctgaca teegeetete ettecatgge egeeaaaget egtaetgtte
 601 caatactttt gatgggcctg ggagagtcct ggcccatgcc gacatcccag agctgggcag
 661 tgtgcacttc gacgaagacg agttctggac tgaggggacc taccgtgggg tgaacctgcg
 721 catcattgca gcccatgaag tgggccatgc tctggggctt gggcactccc gatattccca
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 901 agaagagaca gagctgccca ctgtgccccc agtgcccaca gaacccagtc ccatgccaga
 961 cccttgcagt agtgaactgg atgccatgat gctggggccc cgtgggaaga cctatgcttt
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1441 ctactggcgc ctcaaccagc agcttcgagt agagaaaggc tatcccagaa atatttccca
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1561 teceteaggt acgggeataa cettggatae caetetetea gecacagaaa ceacgtttga
1621 atactgactg ctcacccaca gacacaatct tggacattaa cccctgaggc tccaccaccc
1681 accettteat tteecececa gaageetaag geetaatage tgaatgaaat acetgtetge
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- 1741 tcagtagaac cttgcaggtg ctgtagcagg cgcaagaccg tagatctcag gcctctaaca 1801 cttccaactc cagccaccac tttcctgtgc attttcactc ctgagaagtg ctcccctaac 1861 tcagatcccc taacttagat ttggccccca actccatttc ctgtctgtct tagacagccc 1921 ttccaactgt gtcatctctt ctctggaggt caatggtgga gggagatgcc tgggtcctgt 1981 tcttcctaca taaaatgcaa gaaaacagca tggccagtaa actgagcaag ggccttggaa 2041 tccttgagaa tcacatttat gtgcttatga ttacgggcaa gctaattaac cttgttgaat 2101 ctcagattcc ccatttgcaa cattaggtta agaccagtac tgcaggattg ttgcactaaa 2161 tgaaatactg tatgtgaagt gcctggcaca gtgtctggta catttgtgtt taataaaagc 2221 taactccatg ttcataagaa aaaaaaaa
- (2) INFORMATION FOR SEQ ID NO:2739:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 627 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2739
  - 1 ggagaccggc cgcatggacc cagggacagt ggccaccatg cgtaagcccc gctgctccct 61 gcctgacqtg ctgggggtgg cggggctggt caggggggt cgccggtacg ctctgagcgg 121 caqcqtqtqq aaqaaqcqaa ccctqacatq qaqqqtacqt tccttccccc aqaqctccca 181 gctgagccag gagaccgtgc gggtcctcat gagctatgcc ctgatggcct ggggcatgga 241 gtcaggcctc acatttcatg aggtggattc cccccagggc caggagcccg acatcctcat 301 cgactttgcc cgcgccttcc accaggacag ctaccccttc gacgggttgg ggggcaccct 361 agcccatgcc ttcttccctg gggagcaccc catctccggg gacactcact ttgacgatga 421 ggagacctgg acttttgggt caaaagcctc tcagcagctg gagcaggagc tggcaggcgg 481 ctcaccgqtt gatgaggagc tqqqcttcag ccqqqqctqq cqtqtqaatc ctctqqgtcc 541 tggcagtcct gagcgcctga gctgaataca gagggaagag gctgggagca aggccgggtg 601 ctggggccgg caggctgtgt tctgaga
- (2) INFORMATION FOR SEQ ID NO:2740:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1532 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2740

1501 actactaaat gtttgtcttt aaaggcagct gg

1 atgatettae teacatteag caetggaaga eggttggatt tegtgeatea ttegggggtg 61 tttttcttgc aaaccttgct ttggatttta tgtgctacag tctgcggaac ggagcagtat 121 ttcaatgtgg aggtttggtt acaaaagtac ggctaccttc caccgactga ccccagaatg 181 tcagtgctgc gctctgcaga gaccatgcag tctgccctag ctgccatgca gcagttctat 241 ggcattaaca tgacaggaaa agtggacaga aacacaattg actggatgaa gaagccccga 301 tgcggtgtac ctgaccagac aagaggtagc tccaaatttc atattcgtcg aaagcgatat 361 gcattgacag gacagaaatg gcagcacaag cacatcactt acagtataaa gaacgtaact 421 ccaaaagtag gagaccctga gactcgtaaa gctattcgcc gtgcctttga tgtgtggcag 481 aatgtaactc ctctgacatt tgaagaagtt ccctacagtg aattagaaaa tggcaaacgt 541 gatgtggata taaccattat ttttgcatct ggtttccatg gggacagctc tccctttgat 601 ggagagggag gatttttggc acatgcctac ttccctggac caggaattgg aggagatacc 661 cattttgact cagatgagcc atggacacta ggaaatccta atcatgatgg aaatgactta 721 tttcttgtag cagtccatga actgggacat gctctgggat tggagcattc caatgacccc 781 actgccatca tggctccatt ttaccagtac atggaaacag acaacttcaa actacctaat 841 gatgatttac agggcatcca gaagatatat ggtccacctg acaagattcc tccacctaca 901 agacctctac cgacagtgcc cccacaccgc tctattcctc cggctgaccc aaggaaaaat 961 gacaggccaa aacctcctcg gcctccaacc ggcagaccct cctatcccgg agccaaaccc 1021 aacatctgtg atgggaactt taacactcta gctattcttc gtcgtgagat gtttgttttc 1081 aaggaccagt ggttttggcg agtgagaaac aacagggtga tggatggata cccaatgcaa 1141 attacttact tctggcgggg cttgcctcct agtatcgatg cagtttatga aaatagcgac 1201 gggaattttg tgttctttaa agtgaaggga gacactctat ctgtaatcca agatggttgg 1261 ctctacaaat accattggaa atggattcta gaacaaaggc agtcagtgcc tgtgctctca 1321 agacaaactg aaaagcacaa gacctatgaa gaattatctt ccatcacata ctaacaaaga 1381 acaatcagga attgaaaatt taaaataaaa ggccatttac aattgcattc gaaaacacca 1441 aataccgagg gatcaatctg caaaaaatgt gcatgacctc tacattgaaa acaacaaaac

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(2) INFORMATION FOR SEQ ID NO:2741:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1778 base pairs
     (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2741
   1 tagaagttta caatgaagtt tettetaata etgeteetge aggeeactge ttetggaget
  61 cttcccctga acagctctac aagcctggaa aaaaataatg tgctatttgg tgagagatac
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  181 ggaaacttaa tgaaggaaaa aatccaagaa atgcagcact tcttgggtct gaaagtgacc
  241 gggcaactgg acacatctac cctggagatg atgcacgcac ctcgatgtgg agtccccgat
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 361 agaatcaata attacacacc tgacatgaac cgtgaggatg ttgactacgc aatccggaaa
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1081 aatttaagac cagagccaaa ttatcccaag agcatacatt cttttggttt tcctaacttt
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1261 ctgattacca agaacttcca aggaatcggg cctaaaattg atgcagtctt ctattctaaa
1321 aacaaatact actattctt ccaaggatct aaccaatttg aatatgactt cctactccaa
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1561 ttatataaaa tacataatat ttttcaattt tgaaaactct aattgtccat tcttgcttga
1621 ctctactatt aagtttgaaa atagttacct tcaaagcaag ataattctat ttgaagcatg
1681 ctctgtaagt tgcttcctaa catccttgga ctgagaaatt atacttactt ctggcataac
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(2) INFORMATION FOR SEQ ID NO:2742:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1743 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2742
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 181 aaaggacagt aatctcattg ttaaaaaaat ccaaggaatg cagaagttcc ttgggttgga
 241 ggtgacaggg aagctagaca ctgacactct ggaggtgatg cgcaagccca ggtgtggagt
 301 tcctgacgtt ggtcacttca gctcctttcc tggcatgccg aagtggagga aaacccacct
 361 tacatacagg attgtgaatt atacaccaga tttgccaaga gatgctgttg attctgccat
 421 tgagaaagct ctgaaagtct gggaagaggt gactccactc acattctcca ggctgtatga
 481 aggagaggct gatataatga tctctttcgc agttaaagaa catggagact tttactcttt
 541 tgatggccca ggacacagtt tggctcatgc ctacccacct ggacctgggc tttatggaga
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         (C) STRANDEDNESS: single
         (D) TOPOLOGY: linear
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2743
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        (A) LENGTH: 9137 base pairs
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### (2) INFORMATION FOR SEQ ID NO:2745:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 776 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2745
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- (2) INFORMATION FOR SEQ ID NO:2746:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4124 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2746
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 1201 gccatcatct tacggaaccg ggtgcaaagc ctggttctgg gggcacctcg atatcagcac
 1261 atcggcctgg tagcgatgtt caggcagaac actggcatgt gggagtccaa cgctaatgtc
 1321 aagggcaccc agatcggcgc ctacttcggg gcctccctct gctccgtgga cgtggacagc
 1381 aacggcagca ccgacctggt cctcatcggg gcccccatt actacgagca gacccgaggg
 1441 ggccaggtgt ccgtgtgccc cttgcccagg gggcagaggg ctcggtggca gtgtgatgct
 1501 gttctctacg gggagcaggg ccaaccctgg ggccgctttg gggcagccct aacagtgctg
 1561 ggggacgtaa atggggacaa gctgacggac gtggccattg gggccccagg agaggaggac
 1621 aaccggggtg ctgtttacct gtttcacgga acctcaggat ctggcatcag ccctcccat
 1681 agccagcgga tagcaggctc caagctctct cccaggctcc agtattttgg tcagtcactg
 1741 agtgggggcc aggacctcac aatggatgga ctggtagacc tgactgtagg agcccagggg
 1801 cacgtgctgc tgctcaggtc ccagccagta ctgagagtca aggcaatcat ggagttcaat
 1861 cccagggaag tggcaaggaa tgtatttgag tgtaatgatc aggtggtgaa aggcaaggaa
1921 gccggagagg tcagagtctg cctccatgtc cagaagagca cacgggatcg gctaagagaa
1981 ggacagatcc agagtgttgt gacttatgac ctggctctgg actccggccg cccacattcc
2041 cgcgccgtct tcaatgagac aaagaacagc acacgcagac agacacaggt cttggggctg
2101 acccagactt gtgagaccct gaaactacag ttgccgaatt gcatcgagga cccagtgagc
2161 cccattgtgc tgcgcctgaa cttctctctg gtgggaacgc cattgtctgc tttcgggaac
2221 ctccggccag tgctggcgga ggatgctcag agactcttca cagccttgtt tccctttgag
2281 aagaattgtg gcaatgacaa catctgccag gatgacctca gcatcacctt cagtttcatg
2341 agcctggact gcctcgtggt gggtgggccc cgggagttca acgtgacagt gactgtgaga
2401 aatgatggtg aggactccta caggacacag gtcaccttct tcttcccgct tgacctgtcc
2461 taccggaagg tgtccacgct ccagaaccag cgctcacagc gatcctggcg cctggcctgt
2521 gagtctgcct cctccaccga agtgtctggg gccttgaaga gcaccagctg cagcataaac
2581 caccccatct tcccggaaaa ctcagaggtc acctttaata tcacgtttga tgtagactct
2641 aaggetteee ttggaaacaa actgeteete aaggeeaatg tgaccagtga gaacaacatg
2701 cccagaacca acaaaaccga attccaactg gagctgccgg tgaaatatgc tgtctacatg
2761 gtggtcacca gccatggggt ctccactaaa tatctcaact tcacggcctc agagaatacc
2821 agtcgggtca tgcagcatca atatcaggtc agcaacctgg ggcagaggag cctccccatc
2881 agcctggtgt tcttggtgcc cgtccggctg aaccagactg tcatatggga ccgccccag
2941 gtcaccttct ccgagaacct ctcgagtacg tgccacacca aggagcgctt gccctctcac
3001 tecgaettte tggetgaget teggaaggee eeegtggtga actgeteeat egetgtetge
3061 cagagaatcc agtgtgacat cccgttcttt ggcatccagg aagaattcaa tgctaccctc
3121 aaaggcaacc tetegtttga etggtacatc aagacetege ataaceacet eetgategtg
3181 agcacagetg agatettgtt taacgattee gtgtteacce tgetgeeggg acagggggeg
3241 tttgtgaggt cccagacgga gaccaaagtg gagccgttcg aggtccccaa cccctgccg
3301 ctcatcgtgg gcagctctgt cgggggactg ctgctcctgg ccctcatcac cgccgcgctg
3361 tacaagctcg gcttcttcaa gcggcaatac aaggacatga tgagtgaagg gggtcccccg
3421 ggggccgaac cccagtagcg gctccttccc gacagagctg cctctcggtg gccagcagga
3481 ctctgcccag accacacgta gcccccaggc tgctggacac gtcggacagc gaagtatccc
3541 cgacaggacg ggcttgggct tccatttgtg tgtgtgcaag tgtgtatgtg cgtgtgtgcg
3601 agtgtgtgca agtgtctgtg tgcaagtgtg tgcacgtgtc ggtgtgcgtg catgtgcact
3661 cgcacgccca tgtgtgagtg tgtgcaagta tgtgagtgtg tccaagtgtg tgtgcgtgtg
3721 tccatgtgtg tgcaagtgtg tgcatgtgtg cgagtgtgtg catgtgtgtg ctcaggggcg
3781 tgtggctcac gtgtgtgact cagatgtctc tggcgtgtgg gtaggtgacg gccagcgtag
3841 cctctccggc agaagggaac tgcctgggct cccttgtgcg tgggtgaagc cgctgctggg
3901 ttttcctccg ggagagggga cggtcaatcc tgtgggtgaa gacagaggga aacacagcag
3961 cttctctcca ctgaaagaag tgggacttcc cgtcgcctgc agcctgcggc ctgctggagc
4021 ctgcgcagct tggatggaga ctccatgaga agccgtgggt ggaaccagga gcctcctcca
4081 caccagcgct gatgcccaat aaagatgccc actgaggaat gatg
```

## (2) INFORMATION FOR SEQ ID NO:2747:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2998 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2747
- 1 agcaggaagc tcgccgccc gtcgccgccg ccgctcagct tccccgggcg cgtccaggac

e	1 coactacae	C aggggggg	~ +~~~~			
12	1 caccactca	a accaset se	y teceeggae	c cggcgtgcgi	t ccctacgag	g aaagggaccc
18	1 ccctcaccc	a geogeolee	g ccagececa	c tgcgaggggi	cccagagcc	a gccgcgcccg
24	1 accccaace	c cagacacaca	a goottooogo	c cctgcgcgc	c atgaacgcc	c ccgagcggca
30	1 gettgagtt	c teesteete	y acgececage	g ccacgagect	gggggcagc	cccaagacga
36	1 tocacataa	a atagassas	tegactatga	gtatttgaat	ccgaacgaa	g aagagccgaa
42	1 taacataa	g gregerage	cacceteege	g accegeatad	cccgatgate	g taatggacta
48	1 agagggggg	t sametane	cccttgctag	g tetetetgge	gageceeee	g gccgattcgg
54	1 agageegga	c agggtaggg	cgcagaagtt	tctgagcgcg	gccaagcca	g caggggcctc
60	1 cctccccat	c ceteggate	g agatcactco	gtcccacgaa	ctgatccag	g caggggcccc g cagtggggcc
66	1 carcogcati	y ayagacgcgg	gcctcctggt	ggagcagcct	cccctggccq	gggtggccgc
72	1 gaggggggg	t caccetge	ccgtgcccgg	, cttcgagggc	: taccgcgago	cgctttgctt
, _	- gageceege	ı aycaycyycı	. cctctqccac	: Cttcatttct	gacacettet	ccccctacac
84	1 categorites	gictogecea	ataacggcgg	gcccgacgac	: ctgtgtccgd	agtttcaaaa
90	1 carcectych	cattattccc	ccagaacctc	gccaataatg	tcacctcga <i>a</i>	ccagcctcgc
96	1 cyayyacayo	tgeetgggee	: gccactcgcc	: cgtgccccgt	ccggcctccc	gctcctcatc
102	1 geerggege	aagcggaggc	: attcgtgcgc	cgaggccttg:	gttgccctgc	: cgcccggagc
102	Locaccca	y cyclecegga	gecettegee	gcagccctca	teteacatac	Caccccaca
100.	r ccacggctc	: ccggctgggt	accccctqt	gactaactct	accataatca	tagatagaat
	- gaacageeee	- gccacggact	caccttataa	gatececee	aagatgtgga	202002000
120.	Ligaticitie	, coggigicia	ccaccccatc	Caaggccggc	ctacctcacc	2021012000
120.	. ggccgcggag	, ilicitggggc	cctqcqaqca	gggggagagg	agaaactccc	ctccacaata
172.	L catcutyct	, griccegecea	cttqqcccaa	accactaata	cctaccatta	ccatctagas
150.	cattettagig	actgcatccc	tccctccact	tgagtggccg	ctatecaate	antoaganta
	. ccacgagety	i cygalcgagg	tqcaqcccaa	gccacaticac	caaacccact	2+42424242
-50.	. aggcagccga	. ggggctgtca	aagctccaac	tagaagccac	cctataatta	ageteeatee
100	. ccacatyyaa	aacaagcctc	tqqqacttca	gatetteatt	addacadcta	3+434044
1021	. ccctaageeg	cacgccttct	accaggtgca	ccgaatcacg	gggaaaactg	teaccancan
1001	. cayctatyay	aayatagtgg	gcaacaccaa	agtectagag	atccccttag	244444
1/47	. caacacyayy	gcaaccatcg	actqtqcqqq	gatettgaag	cttagaaacg	ccasasttas
1001	. yctycygaaa	ggcgagacgg	acattqqaaq	aaagaacacg	caaataaaac	taattttaa
1001	. ageccacace	ccayagteca	gtggcagaat	catatata	cagactgcat	ctaaccccat
->	egagegeeee	cagegatetg	ctcacgaget	gcccatggtt	gaaagacaag	20202020
1 7 0 1	cigaligate	Latggcggcc	aqcaaatqat	cctcacaaaa	caraacttta	catocoacto
2041	caaayiigig	tttactgaga	agaccacaga	tagacagcaa	atttagggagg	+~~~
	ggrggaraag	yacaayagcc	agcccaacat	actttttatt	gagateceta	22+2+0000
	caugeatate	Cycacaccity	taaaagtgaa	cttctacqtc	atcaatoooa	202022222
2221	aagtcagcct	Cagcacttta	CCTACCACCC	agteceagee	atcaanacon	2000000000
2201	cyaatatyac	CCCactctga	tctqcaqccc	cacccatora	aacctaaaaa	GCC3GCc++c
2401	ctacccccag	cacccgatgg	tggccgagtc	cccctcctgc	ctcgtggcca	ccatggctcc
- 101	cryccaycay	LLCCGCacgg	ggctctcatc	ccctgacgcc	cactaccaac	2202022
2401	agcygccgta	CLCLaccage	ggagcaagag	cctgageeee	agectactac	~atataa===
2021	geeggeeeee	arggeegeee	cactatecet	tacagacact	caccacteta	tactaataas
~001	egeeggeeee	Cayyyyccaga	gctcagcccr	act ccacccc	tataaaaaaa	
2041	ceddectata	atccactact	cacccaccaa	ccadcadeta	cactacaass	~~~~
-,01	geeccageac	accalglact	gcgagaattt	CCCaccacca	accaccadac	ctaggggggg
-,01	cccggccagt	caayytcaga	ggctgagccc	gggttcctac	cccacaatca	t+0200200
-021	gaatgccacg	ayccaaagag	ccqccaaaaa	Codacccca	atcaataacc	22222224
2001	accacciging	gyggigacca	ttaaacagga	gcagaacttg	gaccagacct	acttacatas
-741	cyccaatydd	attatcagga	aggagttttc	aggacctcct	gccagaaatc	agacgtaa

# (2) INFORMATION FOR SEQ ID NO:2748:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3784 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2748
- 1 gctgcagcac cctgggccac gccgatgact actgcaaact gtggcgccca cgacgagctc
- 61 gacttcaaac tcgtctttgg cgaggacggg gcgccggcgc cgccgcccc gggctcgcgg
- 121 cctgcagatc ttgagccaga tgattgtgca tccatttaca tctttaatgt agatccacct
- 181 ccatctactt taaccacacc actttgctta ccacatcatg gattaccgtc tcactcttct 241 gttttgtcac catcgtttca gctccaaagt cacaaaaact atgaaggaac ttgtgagatt

	301	cctgaatct	a aatatagco	c attaggtgg	t cccaaaccc	t ttgagtgcc	c aagtattcaa
•	001	actacatct	a ictetecta	ia ctqtcatca	a gaattagat	a cacathaan	a tracetacae
		acadacyac	.c cayaacggg	ia attitioga	a aggeettet	a gagateate	t ctatettest
7	101	cttgageca	it cctaccggg	na gtottotot	t agtectagt	c ctaccaaca	a catatattat
-	) <del>-</del> 1	ayyayıtgg	it tetetgatg	ic atcttcttq	t gaatcgett	t cacatattt:	e tastastata
,	JO T	gactcagag	ı iyaatgaaq	c tqcaqcccq	a tttaccctt	g gatececte	t asattataat
	) O T	ggrggctct	c cagggggct	g ccctqqaqa	a gaaacttgg	c atcaacadt:	+ tagaattaga
'	~	cacccacca	i cacccagge	a atctccttq	c cacteteet.	a datccadtdi	cacteateae
,	OI	aattyycty	a gccccaggc	c agcctcagg	a cootcatca:	a ddcccacat	cccctctccc
·	, <del>,</del> T	aaacggagg	c actccaqtq	c tgaagtttg	t tatoctooo	t ccctttcace	2 222+22-+
	,01	CCLYLLCCL	L cacctggtc	a ctcccccaq	g ggaagtgtg	a cadaadata	ataaataaat
-		gettetgte	c arggragat	c addccttdd	c cotocaotti	t ttccatttc	ataatata.
10	· 2. I	gagactgac	a iccetetea	a aacaaggaa	a acttetoaa	T atcaacctor	
		yyaaaatta	y agolgigit	c agatgacca	a gggagtttai	Caccadece	
		ucagacyacı	y yeeriqqat	c tcagtatcc	t ttaaaqaaaq	r attestatas	. +~~+~~~++
12	OI	Cittagili	c cttcaccct	t tacctqqaq	c aaaccaaag	ctaaccacac	CCCtatatatt
	V-L	egeacatet	L Callacete	c actagacto	a cotttaccac	r ctcattta	
		cegaaaaca	y aaytycaac	c taaaactca	t categagee	· attatossac	+ + 0 2 2 0 0 + 2 - 2
	о <u>т</u>	cgaggggcag	y taaaaqcat	c tactogogo:	a cateetatta	t tassactact	~~~~
		gaaaagccaa	a tadatetae	a aatgtttati	. gggacagcac	, atmatemata	+++
	~ -	catgeattt	t accaygige	i ccgaatcaci	. gggaagacac	r todotactor	2244422242
	01	acaacaacc	y ccagtacaaa	agttctggaa	a attocactto	· ttcctdaaaa	taatatataa
10.	2 1	gccagtatt	y attgtgcago	i tattttqaaa	a ctccgcaatt	cadatatada	20++000000
10	0 1	yyayaaact	, atattqqca	i aaagaatact	adadtacdac	· ++a+a+++a	+
_ ,	• -	ccacagece	x yryyddaddyi	cctttctctc	I cagatageet	ctatacccct	tasatastas
	~ ~	cageggeete	, cicaayaaci	. tcctcatatt	. gagaagtaca	atateasese	++~++~+~+-
10	<u> </u>	aacggaggcc	, alyaaatggt	tqtqactqqa	i totaattic	ttccagaatc	Canantontt
		cccccgaaa	aayyacaaga	: tggacgacct	: cagtgggagg	tagaagggaa	ant natance
100	01	gaaaaatytt	: aaggggctca	a cattqtcctt	gaagtteete	catatoataa	CCCCCCCC++
20	4 T	acaycigcag	, igcaggigca	ı cttttatctt	: tocaatooca	ececonoros	3300000+0+
21	J T	caacyiiiia	l Citatacacc	: agttttgctd	l aagcaagaac	20202022	~~++++-
2.1	O T	ccccagic	: catctttgcc	: tqtqcctcat	cctactcada	CCCadaddcc	ttaatataat
		ceagggagagaa	. cacatyacao	lutactorca	GGACAGAGA	atttasttt	
~	-	cudacataty	i cattcatggt	gacctcatcc	catotoccac	anttocanto	+ > ~ > ~ > + ~ ~ ~
		agigilagia	aayaacagca	tatgattcct	-tetecaatto	tacaccacco	++++
		acaccaacac	. crecigiggq	qtcttcctat	cagoctatgo	aaactaatet	tatataaaa
- 10	,	ggaccaactt	gicilcotat	taatgetgee	tctantcaan	22+++42+4	~~+++~~++
	,	Jagcayyacy	Caactctttc	tqqtttaqtq	aatcttggct	utcaaccact	atastassts
		Juccettatt	CLLCadallC	aggeteaaca	ggacatetet	tarcccatac	2001021101
201	'	jigialaccc	tgcctcatct	qcaatcaatq	ggatatcatt	atteaaatae	300303050
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		recatate	greericaca	ttcagggtct	gttacaacag	cttccccacc	200++0++
		,ccctgggta	quicaccocc	LUCTOOOCCA	ccatctcctc	20tttaa	Andread and a second a second and a second a
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300	1 =	tatatasas	ctcaagcaca	aagtacgggc	caggggggtc	tttctgcacc	ttcatcctta
200	+ 0	licatyticata	gullatatata	tccagcgtca	tttccaccta	ataaaaaaaa	+ - + · · ·
		adcetyaac	cayaayattu	adadcctaac	tttacaacca	ttaatataa	
912		.cagacyacy	accaatttat	atctdacttd	daacaccadc	catoacette	
324	1 2	ggcccaacc	acagegegee	ctcatgtcca	gctcctttct	ggagaatcta	gaggtgaacg
02.1	_ 4	gataattyy	yayayacata	ECCCAGATE	Ctatttccca	200200000	
550	- u	ggeteete	CCCGagtcct	gagtccctnn	atttaggaag	atataataa	
000	- 9	cccaccyca	quettatata	caccaccaac	ttctcaccat	~+++~+~+~+	Andreas and the second
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		aagcagcac	LUCLUCACCL	Caudeettaa	gragatttgg	C222272202	~~~~~
554.	<u>. a</u>	ggergerig	ayctttqqqq	aaatgaactt	tactttttat	2+++220+26	
• • • • • •	ı u	acgacgggc	gettigagtg	tgaatccagc	aggetetett	atttccaaaa	+~~+~~+++
500.	- 9	cayyiyacc	Lygitactia	actaggagtg	ataatttata	ctactttata	ataatt
3781	– y l o	caa	geecetatya	Laalttttaa	aataggaact	tttgataaga	ccttctagaa
,	9	<del></del>					

- (2) INFORMATION FOR SEQ ID NO:2749: (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3769 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2749

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 3601 gagtgtgaat ccagcaggct ctcttgtttc cgaggtgctg cttttgcagg tgacctggtt
 3661 acttaactag gagtggtgat ttgtactgct ttatggtcat ttgaagggcc ctttagtttt
 3721 tatgataatt tttaaaatag gaacttttga taagaccttc tagaagcaa
 (2) INFORMATION FOR SEQ ID NO:2750:
    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 3583 base pairs
      (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2750
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# (2) INFORMATION FOR SEQ ID NO:2751:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2935 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2751

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- (2) INFORMATION FOR SEQ ID NO:2752:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 17069 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2752

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### (2) INFORMATION FOR SEQ ID NO: 2753:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 261 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2753

¹ gaattcccaa ggcgcccccg accgcctgct acgcgggggc cgcgccggcg ccctcgcagg

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61 tcaagagcaa ggccaagaag accgtggaca agcacagcga cgagtacaag atccggcgcg
  121 agcgcaacaa catcgccgtg cgcaagagcc gcgacaaggc caagatgcgc aacctggaga
  181 cgcagcacaa ggtcctggag ctcacggccg agaacgagcg gctgcagaag aaggtggagc
  241 agctgtcgcg cgagggaatt c
(2) INFORMATION FOR SEO ID NO: 2754:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1910 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2754
    1 gtccttcgcg tcccggcggc gcggcggagg ggccggcgtg acgcagcggt tgctacgggc
   61 cgcccttata aataaccggg ctcaggagaa actttagcga gtcagagccg cgcacgggac
  121 tgggaagggg acccacccga gggtccagcc accagccccc tcactaatag cggccacccc
  181 ggcagcggcg gcagcagcag cagcgacgca gcggcgacag ctcagagcag ggaggccgcg
  241 cacctgcggg ccggccggag cgggcagccc caggccccct ccccgggcac ccgcgttcat
  301 gcaacgcctg gtggcctggg acccagcatg tctcccctg ccgccgccgc cgcctgcctt
  361 taaatccatg gaagtggcca acttctacta cgaggcggac tgcttggctg ctgcgtacgg
  421 cggcaaggcg gcccccgcgg cgccccccgc ggccagaccc gggccgcgcc cccccgccgg
  481 cgagctgggc agcatcggcg accacgagcg cgccatcgac ttcagcccgt acctggagcc
  541 gctgggcgcg ccgcaggccc cggcgcccgc cacggccacg gacaccttcg aggcggctcc
  601 gcccgcgccc gcccccgcgc ccgcctcctc cgggcagcac cacgacttcc tctccgacct
  661 cttctccgac gactacgggg gcaagaactg caagaagccg gccgagtacg gctacgtgag
 721 cctggggcgc ctgggggctg ccaagggcgc gctgcacccc ggctgcttcg cgcccctgca
 781 cccaccgccc ccgccgccgc cgccgcccgc cgagctcaag gcggagccgg gcttcgagcc
 841 cgcggactgc aagcggaagg aggaggccgg ggcgccgggc ggcggcgcag gcatggcggc
 901 gggcttcccg tacgcgctgc gcgcttacct cggctaccag gcggtgccga gcggcagcag
 961 cgggagcete tecaegteet cetegteeag eegeegge aegeegagee eegetgaege
1021 caaggeeece ecgaeegeet getaegeggg ggeegggeeg gegeeetege aggteaagag
1081 caaggccaag aagaccgtgg acaagcacag cgacgagtac aagatccggc gcgagcgcaa
1141 caacatcgcc gtgcgcaaga gccgcgacaa ggccaagatg cgcaacctgg agacgcagca
1201 caaggtcctg gagctcacgg ccgagaacga gcggctgcag aagaaggtgg agcagctgtc
1261 gcgcgagctc agcaccctgc ggaacttgtt caagcagctg cccgagcccc tgctcgcctc
1321 ctccggccac tgctagcgcg gcccccgcgg cgtccccctg gggccggccg gggctgagac
1381 tccggggagc gcccgcgccc gcgccctcgc cccnccccc nnnnccgcaa aactttggca
1441 ctggggcact tggcagcngg ggagcccgtc ggtaatttta atattttatt atatatat
1501 atctatattt tgccaaccaa ccgtacatgc agatggctcc cgcccgtggt gtataaagaa
1561 gaaatgtcta tgtgtacaga tgaatgataa actetetget etecetetge eceteteeag
1621 gcccggcggg cggggccggt ttcgaagttg atgcaatcgg tttaaacatg gctgaacgcg
1681 tgtgtacacg ggactgacgc aacccacgtg taactgtcag ccgggccctg agtaatcgct
1801 ttttgtatta taaaaaataa tctatttcta tgagaaaaga ggcgtctgta tattttggga
1861 atcttttccg tttcaagcaa ttaagaacac ttttaataaa ctttttttg
(2) INFORMATION FOR SEQ ID NO:2755:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2171 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2755
   1 gaatteecaa ggegeeeeeg accgeetget acgeggggge egegeeggeg eeetegeagg
  61 tcaagagcaa ggccaagaag accgtggaca agcacagcga cgagtacaag atccggcgcg
 121 agcgcaacaa catcgccgtg cgcaagagcc gcgacaaggc caagatgcgc aacctggaga
 181 cgcagcacaa ggtcctggag ctcacggccg agaacgagcg gctgcagaag aaggtggagc
 241 agctgtcgcg cgagggaatt c
 262 gtccttcgcg tcccggcggc gcggcggagg ggccggcgtg acgcagcggt tgctacgggc
 322 cgcccttata aataaccggg ctcaggagaa actttagcga gtcagagccg cgcacgggac
 382 tgggaagggg acccacccga gggtccagcc accagccccc tcactaatag cggccacccc
 442 ggcagcggcg gcagcagcag cagcgacgca gcggcgacag ctcagagcag ggaggccgcg
 502 cacctgcggg ccggccggag cgggcagccc caggccccct ccccgggcac ccgcgttcat
 562 gcaacgcetg gtggcetggg acccagcatg tetececetg eegeegeege egeetgeett
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622 taaatccatg gaagtggcca acttctacta cgaggcggac tgcttggctg ctgcgtacgg
 682 cggcaaggcg gcccccgcgg cgccccccgc ggccagaccc gggccqcqcc cccccqccqq
 742 cgagctgggc agcatcggcg accacgagcg cgccatcgac ttcagcccgt acctggagcc
 802 gctgggcgcg ccgcaggccc cggcgcccgc cacggccacg gacaccttcg aggcggctcc
 862 geoegegee geoecegege eegecteete egggeageac caegaettee teteegaeet
 922 cttctccgac gactacgggg gcaagaactg caagaagccg gccgagtacg gctacgtgag
 982 cctggggcgc ctgggggctg ccaagggcgc gctgcacccc qqctqcttcq cqcccctqca
1042 cccaccgccc ccgccgccgc cgccgcccgc cgagctcaag gcggagccgg gcttcgagcc
1102 cgcggactgc aagcggaagg aggaggccgg ggcgccgggc ggcggcgcag gcatggcggc
1162 gggcttcccg tacgcgctgc gcgcttacct cggctaccag gcggtgccga gcggcagcag
1222 cgggagcctc tccacgtcct cctcgtccag cccgcccggc acgccgagcc ccgctgacgc
1282 caaggeeece eegacegeet getaegeggg ggeegggeeg gegeeetege aggteaagag
1342 caaggccaag aagaccgtgg acaagcacag cgacgagtac aagatccggc gcgagcgcaa
1402 caacatcgcc gtgcgcaaga gccgcgacaa ggccaagatg cgcaacctgg agacgcagca
1462 caaggtcctg gagctcacgg ccgagaacga gcggctgcag aagaaggtgg agcagctgtc
1522 gcgcgagctc agcaccctgc ggaacttgtt caagcagctg cccgagcccc tgctcgcctc
1582 ctccggccac tgctagcgcg gccccgcgg cgtccccctg gggccggccg gggctgagac
1642 tecggggage geeegegeee gegeeetege eeceneece nnnneegeaa aactttggea
1702 ctggggcact tggcagcngg ggagcccgtc ggtaatttta atattttatt atatatat
1762 atctatattt tgccaaccaa ccgtacatgc agatggctcc cgcccgtggt gtataaagaa
1822 gaaatgtcta tgtgtacaga tgaatgataa actctctgct ctccctctgc ccctctccag
1882 gcccggcggg cggggccggt ttcgaagttg atgcaatcgg tttaaacatg gctgaacgcg
1942 tgtgtacacg ggactgacgc aacccacgtg taactgtcag ccgggccctg agtaatcgct
2062 ttttgtatta taaaaaataa tctatttcta tgagaaaaga ggcgtctgta tattttggga
2122 atcttttccg tttcaagcaa ttaagaacac ttttaataaa ctttttttg
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## (2) INFORMATION FOR SEQ ID NO:2756:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2426 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2756
- 1 gaccagagca atttctgctt ttcacagggc gggtttctca acggtgactt gtgggcagtg 61 ccttctgctg agcgagtcat ggcccgaagg cagaactaac tgtgcctgca gtcttcactc 121 tcaggatgca gccgaggtgg gcccaagggg ccacgatgtg gcttggagtc ctgctgaccc 181 ttctgctctg ttcaagcctt gagggtcaag aaaactcttt cacaatcaac agtgttgaca 241 tgaagageet geeggaetgg aeggtgeaaa atgggaagaa cetgaeeetg eagtgetteg 301 cggatgtcag caccacctct cacgtcaagc ctcagcacca gatgctgttc tataaggatg 361 acgtgctgtt ttacaacatc tcctccatga agagcacaga gagttatttt attcctgaag 421 tccggatcta tgactcaggg acatataaat gtactgtgat tgtgaacaac aaagagaaaa 481 ccactgcaga gtaccaggtg ttggtggaag gagtgcccag tcccagggtg acactggaca 541 agaaagaggc catccaaggt gggatcgtga gggtcaactg ttctgtccca gaggaaaagg 601 ccccaataca cttcacaatt gaaaaacttg aactaaatga aaaaatggtc aagctgaaaa 661 gagagaagaa ttctcgagac cagaattttg tgatactgga attccccqtt qaggaacagg 721 accgcgtttt atccttccga tgtcaagcta ggatcatttc tgggatccat atgcagacct 781 cagaatctac caagagtgaa ctggtcaccg tgacggaatc cttctctaca cccaagttcc 841 acatcagccc caccggaatg atcatggaag gagctcagct ccacattaag tgcaccattc 901 aagtgactca cctggcccag gagtttccag aaatcataat tcagaaggac aaggcgattg 961 tggcccacaa cagacatggc aacaaggctg tgtactcagt catggccatg gtggagcaca 1021 gtggcaacta cacgtgcaaa gtggagtcca gccgcatatc caaggtcagc agcatcgtgg 1081 tcaacataac agaactattt tccaagcccg aactggaatc ttccttcaca catctggacc 1141 aaggtgaaag actgaacctg tcctgctcca tcccaggagc acctccagcc aacttcacca 1201 tccagaagga agatacgatt gtgtcacaga ctcaagattt caccaagata gcctcaaagt 1261 cggacagtgg gacgtatatc tgcactgcag gtattgacaa agtggtcaag aaaagcaaca 1381 ttgaggtcat aaaaggacag accatcgaag tccgttgcga atcgatcagt ggaactttgc 1441 ctatttctta ccaactttta aaaacaagta aagttttgga gaatagtacc aagaactcaa 1501 atgatectge ggtatteaaa gacaacecea etgaagaegt egaataceag tgtgttgeag 1561 ataattgcca ttcccacgcc aaaatgttaa gtgaggttct gagggtgaag gtgatagccc 1621 cggtggatga ggtccagatt tctatcctgt caagtaaggt ggtggagtct ggagaggaca

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1681 ttgtgctgca atgtgctgtg aatgaaggat ctggtccat cacctataag ttttacagag 1741 aaaaagaggg caaaccette tatcaaatga cetcaaatge cacceaggca ttttggacca 1801 agcagaagge taacaaggaa caggaggag agtattactg cacagcette aacagagcca 1861 accacgcete cagtgtccce agaagcaaaa tactgacagt cagagtcat cttgatcatt 1921 ggaagaaagg acttattgca gtggttatca teggagtgat cattgetete ttgatcattg 1981 eggecaaatg ttatttetg aggaaagcca aggecaagca gatgecagt gaaatgtcca 2041 ggecagcagt accaettetg aactecaaca acgagaaaat gtcagatcee aatatggaag 2101 etaacagtca ttaeggtcae aatgacgatg teggaaacca tgecagtgaa ecaataaatg 2161 ataataaaga geetetgaac teagaeggte agtacaegga agtteaagtg teeteagae 2221 agteteacaa agatetagga aagaaggaca cagagacagt gtacagtgaa gteeggaaag 2281 etgtecetga tgeegtggaa agcagataet etagaacgga aggeteeett gatggaactt 2341 agacagcaag geeagatgea catecetgga aggacateca tgteeggaa agaacagatg 2401 atecetgtat tteaagaect etgtee
```

### (2) INFORMATION FOR SEQ ID NO:2757:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2557 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2757

```
1 gaattccggg agaagtgacc agagcaattt ctgcttttca cagggcgggt ttctcaacgg
 61 tgacttgtgg gcagtgcctt ctgctgagcg agtcatggcc cgaaggcaga actaactgtg
121 cctgcagtct tcactctcag gatgcagccg aggtgggccc aaggggccac gatgtggctt
181 ggagtcctgc tgacccttct gctctgttca agccttgagg gtcaagaaaa ctctttcaca
241 atcaacagtg ttgacatgaa gagcctgccg gactggacgg tgcaaaatgg gaagaacctg
301 accetgcagt gettegegga tgteageace accteteacg teaageetea geaceagatg
361 ctgttctata aggatgacgt gctgttttac aacatctcct ccatgaagag cacagagagt
421 tattttattc ctgaagtccg gatctatgac tcagggacat ataaatgtac tgtgattgtg
481 aacaacaaag agaaaaccac tgcagagtac cagctgttgg tggaaggagt gcccagtccc
541 agggtgacac tggacaagaa agaggccatc caaggtggga tcgtgagggt caactgttct
601 gtcccagagg aaaaggcccc aatacacttc acaattgaaa aacttgaact aaatgaaaaa
661 atggtcaagc tgaaaagaga gaagaattct cgagaccaga attttgtgat actggaattc
721 cccgttgagg aacaggaccg cgttttatcc ttccgatgtc aagctaggat catttctggg
781 atccatatgc agacctcaga atctaccaag agtgaactgg tcaccgtgac ggaatccttc
841 totacaccca agttccacat cagccccacc ggaatgatca tggaaggagc tcagctccac
901 attaagtgca ccattcaagt gactcacctg gcccaggagt ttccagaaat cataattcag
961 aaggacaagg cgattgtggc ccacaacaga catggcaaca aggctgtgta ctcagtcatg
1021 gccatggtgg agcacagtgg caactacacg tgcaaagtgg agtccagccg catatccaag
1081 gtcagcagca tcgtggtcaa cataacagaa ctattttcca agcccgaact ggaatcttcc
1141 ttcacacatc tggaccaagg tgaaagactg aacctgtcct gctccatccc aggagcacct
1201 ccagccaact tcaccatcca gaaggaagat acgattgtgt cacagactca agatttcacc
1261 aagatagcct caaagtcgga cagtgggacg tatatctgca ctgcaggtat tgacaaagtg
1321 gtcaagaaaa gcaacacagt ccagatagtc gtatgtgaaa tgctctccca gcccaggatt
1381 tcttatgatg cccagtttga ggtcataaaa ggacagacca tcgaagtccg ttgcgaatcg
1441 atcagtggaa ctttgcctat ttcttaccaa cttttaaaaaa caagtaaagt tttggagaat
1501 agtaccaaga actcaaatga tcctgcggta ttcaaagaca accccactga agacgtcgaa
1561 taccagtgtg ttgcagataa ttgccattcc catgccaaaa tgttaagtga ggttctgagg
1621 gtgaaggtga tagccccggt ggatgaggtc cagatttcta tcctgtcaag taaggtggtg
1681 gagtctggag aggacattgt gctgcaatgt gctgtgaatg aaggatctgg tcccatcacc
1741 tataagtttt acagagaaaa agagggcaaa cccttctatc aaatgacctc aaatgccacc
1801 caqqcatttt qgaccaagca gaaggctagc aaggaacagg agggagagta ttactgcaca
1861 gccttcaaca gagccaacca cgcctccagt gtccccagaa gcaaaatact gacagtcaga
1921 gtcattcttg ccccatggaa gaaaggactt attgcagtgg ttatcatcgg agtgatcatt
1981 gctctcttga tcattgcggc caaatgttat tttctgagga aagccaaggc caagcagatg
2041 ccagtggaaa tgtccaggcc agcagtacca cttctgaact ccaacaacga gaaaatgtca
2101 gatcccaata tggaagctaa cagtcattac ggtcacaatg acgatgtcag aaaccatgca
2161 atgaaaccaa taaatgataa taaagagcct ctgaactcag acgtgcagta cacggaagtt
2221 caagtgtcct cagctgagtc tcacaaagat ctaggaaaga aggacacaga gacagtgtac
2281 agtgaagtcc ggaaagctgt ccctgatgcc gtggaaagca gatactctag aacggaaggc
2341 tcccttgatg gaacttagac agcaaggcca gatgcacatc cctggaagga catccatgtt
2401 ccgagaagaa cagataatcc ctgtatttca agacctctgt gcacttattt atgaacctgc
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2461 cctgctccca cagaacacag caattcctca ggctaagctg ccggttctta aatccatcct 2521 gctaagttaa tgttgggtag aaagagatac agagggg

#### (2) INFORMATION FOR SEQ ID NO:2758:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1560 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2758

1 cccqqqttca aqcqattctc ctqcctcaqc ctcttgggta gctgggatta taggcgtgtg 61 ccaccgtgcc tggctaattt ttgtattttt attggagaca gggtttcacc atgttggcca 121 ggctggtctg aaactcctga cctcaggcaa tcctcctacc tcagcctctc aaagtgctgg 181 gattaccggc atgagccacg actcccggcc ccaaaggtca atcttaaagc tacaaggtat 241 cttttaaaag gagtaggaat aacgtatttt gaggcttaaa ggagtaggaa tagtgtattt 301 ttagatttga agccatcttc taaagggtac gatatttggt taacatgtca ctccttatcg 361 ccatggaaga agttaattct attcttttt ttttttttt gagatggagt ctcactctgt 421 tgcccaggct ggagtacaat ggtgtgatct cagctcactg caacctctgc ctcctgggtt 481 caagcaattc tcctgcctca gcctcctgag tagcagggat tacaggggtt ctccaccatg 541 cctgtctaat ttttgtattt tttttttag tagaggtgga gtttcaccat gttggtcagg 601 ctggtctcaa acccctaacc tcatgatccg cccgccttgg cctcccaaag tgctgggatt 721 tgtatgttct tcttctatct tacatctttt gcttttgcta ttgcttaagc tagcctacgc 781 caaqqqtqct ctttqccccc tacttcctct gctattctcg cctcagttcc gctgcattcc 841 aagctcagcc tgccccagca gcaggtctct ttgacaaacc tgcaattttg gggaaaagtc 901 agccccaaga aaggcagggg gcccagactt atgctgtgtg gcaaaagccc tctttgatgg 961 gqqaaqqqqa qqactqqaaa aqcaqaqaqa tctttctgga tgtcctggga gagcagccct 1021 ttgggtggtg ggtggaggct ggaggcaggg aggaatcccc tcacagtgcc atgagaaggg 1081 cccccaaacc caggcgagac agagggaggg tcaagaacgc caaggcaaat gtcacttgtg 1141 ccttgttttt tccctaaaga aactaaacaa agcggccgcg ttcggtggcc cctcaggaag 1201 gccggtcatt tcctgaggag atatcaggcc agcccaggcc ccattgttcc cggtttccag 1261 ccatggctgc cattacctga ccagcgccac agccggtctc tctgcaggcg ccgggagaag 1321 tgaccagage aatttetget tttcacaggg egggtttete aaeggtgaet tgtgggeagt 1381 gccttctgct gagcgagtca tggcccgaag gcagaactaa ctgtgcctgc agtcttcact 1441 ctcaqqatqc agccqaqqtq qqcccaaqqq gccacqatqt ggcttggagt cctgctgacc 1501 cttctqctct qtqaqtqttt actctqtttc cacatcactt taactccatg agcatcgaag

### (2) INFORMATION FOR SEQ ID NO: 2759:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2537 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2759

1 gaattccggg agaagtgacc agagcaattt ctgcttttca cagggcgggt ttctcaacgg 61 tgacttgtgg gcagtgcctt ctgctgagcg agtcatggcc cgaaggcaga actaactgtg 121 cctgcagtct tcactctcag gatgcagccg aggtgggccc aaggggccac gatgtggctt 181 ggagtcctgc tgacccttct gctctgttca agccttgagg gtcaagaaaa ctctttcaca 241 atcaacagtg ttgacatgaa gagcctgccg gactggacgg tgcaaaatgg gaagaacctg 301 accetgeagt gettegegga tgteageace accteteacg teaageetea geaceagatg 361 ctgttctata aggatgacgt gctgttttac aacatctcct ccatgaagag cacagagagt 421 tattttattc ctgaagtccg gatctatgac tcagggacat ataaatgtac tgtgattgtg 481 aacaacaag agaaaaccac tgcagagtac cagctgttgg tggaaggagt gcccagtccc 541 agggtgacac tggacaagaa agaggccatc caaggtggga tcgtgagggt caactgttct 601 gtcccagagg aaaaggcccc aatacacttc acaattgaaa aacttgaact aaatgaaaaa 661 atggtcaagc tgaaaagaga gaagaattct cgagaccaga attttgtgat actggaattc 721 cccqttqaqq aacaqqaccq cqttttatcc ttccqatqtc aagctaggat catttctggg 781 atccatatgc agacctcaga atctaccaag agtgaactgg tcaccgtgac ggaatccttc 841 totacacca agttocacat cagooccaco ggaatgatca tggaaggago toagotocac 901 attaagtgca ccattcaagt gactcacctg gcccaggagt ttccagaaat cataattcag 961 aaggacaagg cgattgtggc ccacaacaga catggcaaca aggctgtgta ctcagtcatg 1021 gccatggtgg agcacagtgg caactacacg tgcaaagtgg agtccagccg catatccaag 1081 gtcagcagca tcgtggtcaa cataacagaa ctattttcca agcccgaact ggaatcttcc



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1141 ttcacacatc tggaccaagg tgaaagactg aacctgtcct gctccatccc aggagcacct
1201 ccagccaact tcaccatcca gaaggaagat acgattgtgt cacagactca agatttcacc
1261 aagatageet caaagtegga cagtgggaeg tatatetgea etgeaggtat tgacaaagtg
1321 gtcaagaaaa gcaacacagt ccagatagtc gtatgtgaaa tgctctccca gcccaggatt
1381 tettatgatg eccagtttga ggteataaaa ggacagaeca tegaagteeg ttgegaateg
1441 atcaqtqqaa ctttqcctat ttcttaccaa cttttaaaaa caaqtaaaqt tttqqaqaat
1501 agtaccaaga actcaaatga teetgeggta tteaaagaca acceeactga agacgtegaa
1561 taccagtgtg ttgcagataa ttgccattcc catgccaaaa tgttaagtga ggttctgagg
1621 gtgaaggtga tagccccggt ggatgaggtc cagatttcta tcctgtcaag taaggtggtg
1681 gagtctggag aggacattgt gctgcaatgt gctgtgaatg aaggatctgg tcccatcacc
1741 tataagtttt acagagaaaa agagggcaaa cccttctatc aaatgacctc aaatgccacc
1801 caggcatttt ggaccaagca qaaqqctagc aaggaacagg agggaqagta ttactgcaca
1861 gccttcaaca gagccaacca cgcctccagt gtccccagaa gcaaaatact gacagtcaga
1921 gtcattcttg ccccatggaa gaaaggactt attgcagtgg ttatcatcgg agtgatcatt
1981 gctctcttga tcattgcggc caaatgttat tttctgagga aagccaaggc caagcagatg
2041 ccagtggaaa tgtccaggcc agcagtacca cttctgaact ccaacaacga gaaaatgtca
2101 gatcccaata tggaagctaa cagtcattac ggtcacaatg acgatgtcag aaaccatgca
2161 atgaaaccaa taaatgataa taaagagcct ctgaactcag acgtgcagta cacggaagtt
2221 caaqtqtcct caqctqaqtc tcacaaaqat ctaqqaaaqa aqqacacaqa qacaqtqtac
2281 agtgaagtcc ggaaagctgt ccctgatgcc gtggaaagca gatactctag aacggaaggc
2341 tecettgatg gaacttagae ageaaggeea gatgeacate cetggaagga catecatgtt
2401 ccgagaagaa cagataatcc ctgtatttca agacctctgt gcacttattt atgaacctgc
2461 cctgctccca cagaacacag caattcctca ggctaagctg ccggttctta aatccatcct
2521 gctaagttaa tgttgggtag aaagagatac agagggg
```

### (2) INFORMATION FOR SEQ ID NO: 2760:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1438 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2760

```
1 tettttggtt ttgctattgc ttaagctage ctacgccaag ggtgctcttt geecectaet
 61 tectetgeta ttetegeete agtteegetg catteeaage teageetgee eeageageag
 121 gtctctttga caaacctgca attttgggga aaagtcagcc caagaaaggc agggggccca
 181 gacttatgct gtgtggcaaa agccctcttt gatggggcaa gggtaggact ggaaaagcag
 241 agagatettt etggatgtee tgggagagea geeetttggg tggtgggtgg aggetggagg
361 tcaagaacgc caaggcaaat gtcacttgtg ccttgttttt tccctaaaga aactaaacaa
 421 agcggccgcg ttcggtggcc cctcaggaag gccggtcatt tcctgaggag atatcaggcc
 481 agcccaggcc ccattgttcc cggtttccag ccatggctgc cattacctga ccagcgccac
 541 agccggtctc tctgcaggcg ccgggagaag tgaccagagc aatttctgct tttcacaggg
601 cgggtttctc aacggtgact tgtgggcagt gccttctgct gagcgagtca tggcccgaag
 661 gcagaactaa ctgtgcctgc agtcttcact ctcaggatgc agccgaggtg ggcccaaggg
721 gccacgatgt ggcttggagt cctgctgacc cttctgctct gtgagtgttt actctgtttc
781 cacatcactt taactccatg agcatcgaag cttctggaat caacatgttt cttatgtttc
841 ttgcaggttc aagccttgag ggtcaagaaa actgtaagtc tgatgtttcc actgtaacag
 901 atgtttctac ctggcttcct cctttctctt ctgtgatgcc taaaacgcac attaaattgc
 961 tggggtttga tacttctaac aattaaggaa aagaatccaa ttgagaacta aagtttatcc
1021 catgtgggca tttttagaaa ggcttagatc taagccaagt tctggtcagt gtgttttaga
1081 agtagcacac gtttccttgg ctggtctgaa agtagtgggt tatcttgatg aattgtttag
1141 tcagttacag atcaaactcc atgttcttt ctctgttctc acgactactc ttgactagtc
1201 taaaaatata ttaggttgtt gaaaagtaat tgtggttttt gccattactt tttaaaagat
1261 ggcaaaaaac acaattataa gtagcacaca ttttcttttt tttttccttt tttttttgag
1321 acagagtete tgttacceag getggagtge agtggtgeaa teeggetete tgeaaactee
1381 gcctccaggg ttcaagggat tctcctgtct cagcctcctg ggtcgctgga attagagg
```

#### (2) INFORMATION FOR SEQ ID NO:2761:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 350 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2761

- 1 ttggcaggct ggtctcaaac tcctgacctc aggtgatccg ctggcctcca cctcccaaag
- 61 tgctgggatt acaggtgtga gccaccacgc ccggcctcac attttctaga tttcagtgca
- 181 tttttgttg ttttaccata atggcttatt tgaatattgt aaggtatccc caactgtttt 241 tatttgcaaa tgagatataa ttgatttgtt agacatatga agacagatcc tagtttaaat
- 301 tgttgctact ttttttactc ctaaatgata aaaatcacac actcgagctc
- (2) INFORMATION FOR SEQ ID NO:2762:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2762
  - 1 ttggcaggct ggtctcaaac tcctgacctc aggtgatccg ctggcctcca cctcccaaag
  - 61 tgctgggatt acaggtgtga gccaccacgc ccggcctcac attttctaga tttcagtgca

  - 181 ttttttgttg ttttaccata atggcttatt tgaatattgt aaggtatccc caactgtttt
  - 241 tatttgcaaa tgagatataa ttgatttgtt agacatatga agacagatcc tagtttaaat
  - 301 tgttgctact ttttttactc ctaaatgata aaaatcacac actcgagctc
- (2) INFORMATION FOR SEQ ID NO:2763:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 265 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2763
  - 1 gctgtcccac agcccacct tcatcacaat agtcctgaaa ctttttgggt tcagtaagga
  - 61 aatctgtggg ccttctctcc agaaaaagca cacatttgca cacaattgga ggtagttgat
  - 121 gagcctccta acacccaccc atgcacctcc caggggctgt gtcccccagg ttgtgaacag
  - 181 tcactctgtg taaatagtga gacctacagg cagtaattca gtttggctgt gcttggctgg
  - 241 tttatttaga aagatgataa tgttt
- (2) INFORMATION FOR SEQ ID NO: 2764:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 168 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2764
  - 1 gageteteca agggeagaca etgecageet caetgttete tgaaceecca gtatgggaca
  - 61 gtgcttggca cagaaaaacc cccttaaatg tttgctatga atggtgctaa ggaagaaggc
  - 121 agagaatgtc aaccagaggc caggcactgg caatatatac acggcccc
- (2) INFORMATION FOR SEQ ID NO:2765:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 243 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2765
  - 1 atacettggc teactgcaac etetgeetee caggtteaag cagtteteet geeteagtet
  - 61 cccaagtagc tgggattaca ggcgcccacc accacacccg gctaattttg tatttttagt
  - 121 agagatgagg tttcaccatg ttggccaggc tggtcttgaa ctcctgacct caagtgatcc
  - 181 accogcotog gcotoccaaa gtgctgggat tacaggcata aaccaccgtg cccggctggt
  - 241 cca
- (2) INFORMATION FOR SEQ ID NO: 2766:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 272 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2766

- 1 gageteatee ageaggette ttaaateagg agettgtaag ttgcatataa agacaaaaaa 61 gggagtteea aagagtaatg etgtgggaaa tgaettgaat ttaaacegte acettgtttg 121 ateteatgga etggteagae aceatttttg ttgtegttgt tgttgttaaa ttaattgete
- 181 agaatatagc agcaggcgca aattgtagta ctcgttttaa aattgaagat taaattttaa
- 241 attacccaac aaaggcctaa ctttgttaaa ag
- (2) INFORMATION FOR SEQ ID NO: 2767:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4308 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2767

61 agaaatgaca caattggcca gttgacccac agcctagttc ctagcagaga ttggatagct 121 gattgagcgt tgtggctgtt ttgaggcttg accagagatt cctgccgttg gcagagggga 181 atctgtagtc tttgcttctt ggtagcaggt gaggctgaaa acgcaagtag caggctaaaa 241 actggtttca agtcctcacc atctggtgaa acctcagagc ccatcagata gaaaatgcca 301 gctgggactg tgctaattcg gtaaggcctg ggtggagaag gagggcctgg gcacgaccat 361 ctggtttcgg aatggaggta gcagtcattt attaagtact taatgtatat cgggcactgt 421 acaggagacg ttctggctgt tctcctgtac atttcctgca aagacctaat gagatatgat 481 tactccatcc tacaggtaag gaaactgagc tcagagagtc tagctgccca gggtcacaca 541 gtaaatgatg agccaggact tgaacacttg actgcttgaa tcctgtactc cctccagggg 601 ccaagatgtg gcagctcaca gaatgcctat atctttttt ttttttgtct tttgagacag 661 totcactotg ttgcccaggo tggagtgcag tggtgagato tcacctcact gcaacccccg 721 cctcccaggt tcaagtgatt cttgtgcctc agcctctcaa gtagctgggt tacaggcctg 781 caccaccaaa cctggctaat ttttgtattt ttagtagaga gggggtttca ccatgttggc 841 caggecagte tetaactget gaceteaggt gatecaceca cettggtete ecaaagtget 901 gggattatag gcgtgagcca ccatacctag ctctacatct ttatcactct gttcctttgc 961 cttggtggga aaagttgcag cttagtacca actgcctcct gcttgagcca ctgtgcacag 1021 ttactatcag cctggccctg taggcacgta gaacccctgg actcaatact gcataggatg 1081 ggataagacc acatctgatg tggtgaaggt caccgggatg atgttgtttc tgagataaca 1141 ggtatgtctg ccttccttcg ggttgcattt agctttcaca atcaacagtg ttgacatgaa 1201 gagcctgccg gactggacgg tgcaaaatgg gaagaacctg accctgcagt gcttcgcgga 1261 tgtcagcacc acctctcacg tcaagcctca gcaccagatg ctgttctata aggatgacgt 1321 gctgttttac aacatctcct ccatgaagag cacagagagt tattttattc ctgaagtccg 1381 gatctatgac tcagggacat ataaatgtac tgtgattgtg aacaacaaag agaaaaccac 1441 tgcagagtac cagctgttgg tggaaggtga gtccttggaa ctgagcacag gcaagcagat 1501 ggagcatagc acacagtggc gtgaataaca gctgtgaatg aatagtgaca ctggacttaa 1561 ctctccaccc atcaccctct cattcatctg cctggcattt tccttacctg aatacgtaag 1621 cactagacat attccccaat aggcaggccc ttccttcctt ccttccttcc ttccttcctt 1681 ccttccttcc ttccttcctt ccttccttcc ttcctttctt tctttgatgg agtctcactc 1741 tgtcacccag tctggagtgc agtgggtgat ctcggctcac tgcaacctct gcctcccagg 1801 ttcaaqcgat tctcctgcct cagcctccca agtaattggg attacaggtg tgtgccacca 1861 cacctggcta attttgtatt tttagtagag atggggtttc actgtgttgg tcaggctggt 1921 ctcqaactct gacctcaagt gatccacctg cctcccaaaa tgcttcttca tctcgctcta 1981 taaattacaa tttctttctt caagactcaa ctcaatgatg ttttgccaaa acaaaatggg 2041 tetaceccag ggtgccagte agtacagete tgatgetete tetacaggea atggtatttg 2101 tgtgtataaa ggccacagcg gtgtgttaag acacctcgtt ctgcagtcac tctgcctggg 2161 tttcaatctt gggtcaagtc cttaacatgc tctaaacttc aaaatcctca ccaqtaaaaq 2221 gaagataaca acgataccca tttcaggcaa ttattgagag ggttaaaagt gtcatgtggg 2281 tagagtgctt agcaaaattt ccagcaccta gtgagttcct aataaataga aatgtattta 2341 tttatttgag acagagtett cetetgteac ecaggetaaa gageaatgge gegaeettgg 2401 ctcactgcaa cctctgtctc ctgggttcaa gcgattctcc tgtctcagcc tcccaagaaa 2461 ctgggattac aggcacgcgc cactgtgcct ggctaatttt ttgtattttt agtaaggatg 2521 gggttttacc atgttggcca gcctggtctc gaactcctaa cttcaagtga tttacccacc 2581 ttggcctccc agagtgtcag gattacaggt gtgagccacc atgcccggtc cacaaatatt 2641 ctatttcact cagtattggc atccgttctt acacatctgt ctgctcttct ggatagtgaa 2701 attgtaaaga cagagatggt gtttgggttt attcttatat cttgaacaat gaatctggct 2761 catagtaggc attcagtcaa tgttcatgga ataaattaaa gtcagtccta gcctgtgggt 2821 gcattcaata aagggtaaca acaatcacag tgacactgac aaatactggg ttacctttcc 2881 cctctaagca tcatctgttg ggaatctgat tgtgtcctct tcccaatagg attataaacc

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2941 attgaaaaca ccaagtacat cttgaccata ttttattttt taaatttatt tatttattta
3001 tttatttatt tttaqacaqa qtctcactct gttgcccagg ctggagggca gtggcacgat
3061 ctcageteae tgcaacetet geettegggg ttcaageaat teteetgeet cageeteeaa
3121 gtagctggga ttacaggtgc ctgccaccat gccggctaat tttgatttaa tagagatggg
3181 gttcgccatg ttggccaggc tggtctcaaa ctcctgacct caggtgatcc acctgcctca
3241 gcctcccaaa qtgttqagat tacagatgtg agccacctcg cgtggcctta gtggtgattt
3301 tggtggaccc atcacccgag cagtgtacac tgtacccagt gtgtagtcat tttatccctc
3361 getecetece actetttece etgagtecee aaagtecact gtateattet tatgeetttg
3421 tttcctcata gcttagctcc cattgagcat attttatatt ttttcctttc ttttcttctc
3481 ttttttgaga cagggtetet gttgeecagg etggagtgea gtggtgggat taetgeteae
3541 tgccgcctca acctcctagg ctcaagtgat tctcccacct cggcctccca agtagctggg
3601 actaccagtg cacaccacta actacccctg gctaatttta atttttttt ttgtagagat
3661 agcatttcac cgtgttgccc aggctggtct ccaactcctg ggctcaagag atccacccac
3721 ctcagcctcc agattttata tatttcaaag tgcctagtac tgtgctgggc acatacctgt
3781 tcatttatta cctggtaggt cgcactgggt gttcagagaa caaaaaagag ccctctcatg
3841 ggatcaacta cagtcactca gcggagggga gggcttgtgt ctctcaatca ggctgatact
3901 gacagacttt cttcttcaat caggetgata etgacatgae tttctaettt eecegtagga
3961 gtgcccagtc ccagggtgac actggacaag aaagaggcca tccaaggtgg gatcgtgagg
4021 gtcaactgtt ctgtcccaga ggaaaaggcc ccaatacact tcacaattga aaaacttgaa
4081 ctaaatgaaa aaatggtcaa gctgaaaaga gagaagaatt ctcgagacca gaattttgtg
4141 atactggaat tccccgttga ggaacaggac cgcgttttat ccttccgatg tcaagctagg
4201 atcatttctg ggatccatat gcagacctca gaatctacca agagtgaact ggtcaccgtg
4261 acgggtcagc atctgctccc ttcctcatcg ttctttgtgg tttctggt
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- (2) INFORMATION FOR SEQ ID NO:2768:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: [_]867 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2768
  - 1 gttctagaga agaaaggttg aattttaaag ttagttagga acaatagaaa agtttgaaaa 61 ggggaagcag caaaaagagc agaagaggct cctcttgcc aggtttgcac ctgagtccaa 121 ccaggttgtc ttcctcttt gcagaatcct tctctacacc caagttccac atcagcccca 181 ccggaatgat catggaagga gctcagctcc acattaagtg caccattcaa gtgactcacc 241 tggcccagga gtttccagaa atcataattc agaaggacaa ggcgattgtg gcccacaaca 301 gacatggcaa caaggctgtg tactcagtca tggccatggt ggagcacagt ggcaactaca 361 cgtgcaaagt ggagtccagc cgcatatcca aggtcagcag catcgtggtc aacatacaa 421 gtagggctgc tgctgccgga gggtgttggc atatggcggg ctcaagaggc caccatgctg 481 caatccagca tggccaaaga gagctgatca tttcctgcc ctgcttatct gaatgaatgt 541 gctcagatg ggctttggtg ctcgtgggag gaaaccactg cagagcgagt taacagtcta 601 ctgtgcgtgt tgagggtaca ggctccggca ccaaagctta accctgccgc tcactgcttc 661 tgtgaccttg ggtgagttat tgaacgtgcc gcaggcgtt gagagtgtga taatgactt 141 aggacctt ggtgagtaa agctctgaaa cactggtaa ctatactgta agcatgagct gagagatttg 141 taagaactg agctctgaaa cactggttaa tgttttcatt actctgttat attcccat 841 cccctgtgac aagcactatg ctagatc
- (2) INFORMATION FOR SEQ ID NO:2769:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1872 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2769
  - 1 gaattccggc ctgtgaatcc atctggttct tggactttt ttggttggta agctattgat 61 tattgccaca atttcagatc ccgttattgg tctattcaga gattcaactt cttcctggtt 121 tagtcttggg agagtgtgtg tgttgaggaa tttatccatt tctcctagat tttctagttt 181 atttgcgtag aggtgttgt agatattctc tgatggtagt ttgtatttgt gtgggatcgg 241 tgatgatatc ccctttatca tttttattg cgtgtatttg attctctct cttttttct 301 ttattaggct tgctagcggt ctatcaattt tgttgatcct ttcaaaaaac cagctcctgg 361 attcattaat tttttgaagg gtttttgtg tctctattc cttcagttct gctctgattt 421 tagttattc ttgccttctg ctagcttaag gagtttcatt cttgttgccc aggctggagt 481 gcagtggagc aatctcggct cactgcaatc tctgtctcct gggttcaagg gattctttg 541 cctcagctc ccgagtatct gggattacag gcgcccacca ccatgctggc taattttata 601 tttttagtag agattgggtt tcaccatgtt gcccaggctg gtctcaactc ctgacctcag

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661 gtgatccacc cacctctgcc tcccaaagtg ctgggattac aggcatgagc caccaccct
 721 ggccacaagt tgcaaaactt ttctaatcct tgtcattgaa ataaattgga ttaacaagaa
 781 aggaaaacct gccattggaa tcctaggcaa agaatgaacc ctagctcctt actggggtga
 841 tcgttaggta catgagaagc aaaggaaaac tttttgctgg aagttggaag ttggttctgc
 901 caagagcacc tgagccaagg gcctctccag gaagggtctt tagggtggtg gccagacaca
 961 tetegeteca tteccaetea etgtttttea gaactatttt ecaageeega aetggaatet
1021 tectteacae atetggacea aggtgaaaga etgaacetgt cetgetecat eecaggagea
1081 cctccagcca acttcaccat ccagaaggaa gatacgattg tgtcacagac tcaagatttc
1141 accaagatag cctcaaagtc ggacagtggg acgtatatct gcactgcagg tattgacaaa
1201 gtggtcaaga aaagcaacac agtccagata gtcgtatgtg gtgagtatat tgttgcgact
1261 cagaggacat ccggggttga atgggagaaa ggaaatttat ctgcagctgc cgccctctcc
1321 ggtctccggt ctgagcagac tcaggcaggg taagaactag agggagagaa gtgcgaaatc
1381 aaaggccaaa gaaacaagga ggtattcctg ctcagaacac tgattcactg atgatgatgt
1441 ggcctctgac ttgcaagatt ctggcaagat tctgcctcct ggagcaagac ccacccaaaa
1501 gttcaggaag gaaacactac ttagtcaatg ttaaactttt ctttttttt tttgagacgt
1561 qtcqcccaqq ctaqaqtqca qtqqcacqat agctcactgc aacctctgcc tcctaggttc
1621 aagtgatete etgeeteage eteceaagta getgggatta eaggtgeeca eeaceaegte
1681 tqcctaattt ttqtattttt attttatta cttttatta tttatttatt tatttttt
1741 cqqtctqtca cccaqqctqq caqtqccaqt qgcacaatct gggcatcact ggaaagcatc
1801 cgcactcctg ggtacacgag cattctcctg cctcagccct cccaagtggg tgtggactac
1861 aggacacacc gt
```

#### (2) INFORMATION FOR SEQ ID NO:2770:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5996 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2770

```
1 tcacttgagt ccaggagttc aagaccagcc tgagcacata gtgagaccct gtctctacaa
  61 aaaataaaga attagccagg tgtggtgtgc acctatagtc ccagctactc gggaggctga
121 ggtaggagga ttgcttgatt ctgggaggtt gtagtgagct gtcatcgcac cagtgcactc
181 cagcctqqqt aataqaqtqa qaccctqtct caaatacaca cacacacaca cacacacaca
241 cattttgttg gctacttgtt gtactttttc tatgttttct gtgtctttgc tcaacacaag
301 aaaagtatat tatgtgtgca tgtgcgtgtg agatatggta aaatatgaac atgtatttct
361 ggggatgtaa tgttttcctt gaatttctgt cattctctgt tttgcttatt gtacttctct
481 cagteteata ggtgteetat aaaggtaaat ggcaggcagg catttgaaat tacagcaggg
541 atagaaagca aaactcaggc tttggaggag gaacctcttg tgctggatgc tttgtttta
601 ccttcagtgc cttttggatt gtttctccct ctgttctaga aatgctctcc cagcccagga
661 tttcttatga tgcccagttt gaggtcataa aaggacagac catcgaagtc cgttgcgaat
721 cgatcagtgg aactttgcct atttcttacc aacttttaaa aacaagtaaa gttttggaga
781 atagtaccaa gaactcaaat gatcctgcgg tattcaaaga caaccccact gaagacgtcg
841 aataccagtg tgttgcagat aattgccatt cccacgccaa aatgttaagt gaggttctga
901 gggtgaaggt gataggtaag ttgctgtgct gtgagaagaa atcatgtggg cttggggcat
961 tctttcaccc ccagggactg tggggacaat aagagaagta gggggccagg tgcggtggct
1021 catgcctgta atcccagcac tttaggaggc caaggccggt gaatcattga ggccaggagt
1081 tcaagaccag cctggccaac atggtgaaac cccatctcta ctaaaaatac aaaaattagc
1141 tgggcatgat ggcgtgcgcc tataatccca gccactcggg aggctgaggc aggagaattg
1201 cttqaaccca ggaagcacag gttgcactga gccaagttgc gccattgcac tccagcctga
1261 gcaacaagag cgaaactcca tctaaaaaaa aaaaagcgag agaagtagtg ggtgcttatg
1321 caaagtccat atactagata tgcaccaaag cagggccaag gttcagtaaa ggaggctgga
1381 aaatatttgg gggctattga tgaggacaat ataatctctt tccagaacct ttcaacaaac
1441 tgctaaaaga tgataagcat gaaagtgtcc tgactgcagg aagcactgaa gttgtgcata
1501 tgggcttccc ttagcacttt ctccttttca gatacactgt tctgagaatt gtagatcagg
1561 actctgctgt tgtgactcct agccggggaa ccctgccttg tgtgaattcg agattagcct
1621 ggccaacatg gtgaaatcct gtctctaata aaaatacaaa aaattagctg ggtgtggtgg
1681 tgggcacctt taatgccagc tactcgggag gctgaggcac aagaatcatt tgaacctggg
1741 aggcagaggc tgcagtgagc caatatcatt ccgctacact ccagcctggg caacggagca
1801 agactccatc tcaaaaaaaa aaaaaattaa cattacatag actaagcacc taatggtgtg
1861 aggcatacaa aaaagaagac atattetttg tttcaatget gtggtaagaa acacaagete
1921 toctaatgaa aatgatggac aaacatotga atcatactac caataagcat agaaaaaatg
1981 ttgggggtca tgtttggttg tcacgtgaac tatatcctta cagtgatggt gatagtaatt
2041 tagggtatgc cagacttcat ctagcttaag tgggtaaaca ttgtgaaaaa gctgggctag
2101 gtgccagggc ttgagaatgg gtggccagag aaggctgaag atggctgaac atctccagca
2161 aacacatgag ccaaaaggtc ccatggggca cttcaaaaga ctgtgcgcag ccaggtgcgg
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2221 tggctcacgc ctataatccc agcactttgg gagaccgaat ggggtggatc acttgagccc
2281 agaggtttgt gactagcttg gccaacatgg caaaaccccg tctctactaa aaatacaaaa
2341 attageceag egtggtggtg ggtgteetgt ageceeaget acteaggtgg etgaggtggt
2401 agaatcactt gaatccagga ggcagaggtt gcagtgagcc aagatcgtgc cactgcactc
2521 aaggactgtg gccaaatcag atggctggaa acaaaggctg gagtttggga atggagaatc
2581 accggatatg agctgaaaaa gtggctgagc ctaagcgtga caggtgtcag gtgccagtct
2641 caggagtagg caattgtcct gcatgcagtg aaaagccaga agatggaagg aaggacagga
2701 tgcaaatgag ttctcggaac gatccacctg gtggctgggt cagggagcag gcatggtgac
2761 ttcagacctc atggtacgtt agaggctaat gtgaagccca tgtgaagctg ttggtttaaa
2821 ctgggtcgat atcagtggca cacatttact gaccatgtgt ccagccctgt gtgaagtact
2881 gtagtaaatt gctccaatgg aaactcacaa taaccacaga aggccagtaa cagcattgtc
2941 gttattttat catgacgcaa ctgaggctta gggcagacag ctggtgggtg gtgggactgg
3001 gatttgagcc cactggtgtc ccaggcccgg agcttggctt cttccattgt cttaccacag
3061 cctgcactca caggagagtg actcataagt tacaatacca tctgctgacc atctgctctc
3121 acactagaag gaaagtctac ttggggagac aatttaggat ccgaattttg gtagttgagg
3181 atggagctag gaaaagcgga tacaggaggt agccaagttc tgcttggacc tgcagggagt
3241 gaggetggee gggeteeagg tggaaateee caggtgaaaa gggagaettg gagtteagga
3301 aagtaacctg gactggagcc ataggtttag gtgtcagtgg ctcagagaca gaagctcagc
3361 gtgtaggtga aatcacccag gaggagaatg gggatggaaa actgaggatt gaattttgca
3421 aaatgttcat acttccgggg aaaacaaaga ataaccagtg aataagaaag gggtgccagg
3481 taagaaggga agagaatcag agtcatgagg aaccccagaa ccccagaaaa agctgagttc
3541 cacgtaagac ctgggcaaca gtgaagtatg gagagcccaa gattgggagc gtggaggaag
3601 agcatccacc actgaattta atcagccccg gactcaggga cgttggttgg ggaatcaagt
3661 gaccttccca gtttcttcaa aacttgagag agagtgcagt gtcacaagat tgtgactaca
3721 aaagagtgca gtcagatttc aggggtaaca agaaagtgtg aaataaggga gtcaaagcat
3781 aaaggaaaaa ggagaaaaaa tggccgatag ctagagaagg cgtgggtcaa gattgtctgt
3841 ggcctggcat ggtggcttat gcctgtaatc ccagcatttt ggaaggccga ggtgggcaaa
3901 tcacctgagg tcaggaattc aagaccagcc tggccaacag ggcaaaaccc cgtctctaaa
3961 acaacaacaa caacaaaaaa atccaaaaag ttagctgggc ctqqtgqqcq cacctqtcat
4021 tccagctact cgggaggctg aggcaggaga tttgcttgaa cccaggaggc acacgttgcg
4081 gtaagctgag attataccac tgcactccag cctgggtgat aagagcggga ctctgtctca
4141 gaggaaaaaa aaaaaagttg agcagtggct gtctcatgtt cctcttcctc tgcccttctt
4201 tgctcagtgt gaatcetttt cctgcttttc agccccggtg gatgaggtcc agatttctat
4261 cctgtcaagt aaggtggtgg agtctggaga ggacattgtg ctgcaatgtg ctgtqaatqa
4321 aggatctggt cccatcacct ataagtttta cagagaaaaa gagggcaaac ccttctatca
4381 aatgacctca aatgccaccc aggcattttg gaccaagcag aaggctaaca aggaacagga
4441 gggagagtat tactgcacag ccttcaacag agccaaccac gcctccagtg tccccagaag
4501 caaaatactg acagtcagag gtgagtcagg gtctccatag caagctgtgc tgtgggcccc
4561 caagggcaag accagaaaac acccccttg taagagggag tttgggggga gtctagctta
4621 tgtgactgaa ggctaggaga gtaatgtcct ccaggctctt ggttgcaagt gacagaaacc
4681 cactcaaatt aagtaaaaaa gagaaatcga ttattataag gaattgggag aatgtcacat
4741 cgttccaatt acaaattgtt ggcagactca ccattgagtc atcttgggtc aaacatccaa
4801 ccacagacca cctgtagcca aggggattgg gtcacgcaga acagacatga ttggggaacc
4861 acttatgtgg gtgtgggggc ggtttcctgg agaagaagag ggctgaaaac acatgccaaa
4921 aaggagtcta ctccacttga gccctggagt tggagaccag cctgggcaac atggtgaaac
4981 cctgtctcta caaaaagtac aaaaataggc tqqqcqcaqt qqctcatacc tqtaatccca
5041 gctactcggg aggctgagac atgagaatca cttgaaccca ggaggtagag gttgcagtga
5101 gcagagettg etceaetgea etceageetg ggcaacagag caagactetg ceteaaaaat
5161 caaaccaaca aaaaatagct gtgtgtggtg gtgtgctcct gtagtcccag ctactcggga
5221 ggctgaggtg gaaggattgc tcaagcccag gaagttgagg ctgcagtgag ctgtcatcag
5281 cctctagcct gggtgacaga gtgagaccct gttcaaaaag aaagaaaaag aaaagagtct
5341 acccagcaaa gctggtttgt tccctccttg aggaccacag ctgacctcta tttgtagcag
5401 aaacaatcat ttctgcacca gctctgagtg cagaacccct cagaggtaga tggatgctaa
5461 ggcaagctgc cagttacaag agctgtgaga atcagactga cttttgttgc ttaaggcctg
5581 tgttttcagt cattcttgcc ccatggaaga aaggacttat tgcagtggtt atcatcggag
5641 tgatcattgc tctcttgatc attgcggcca aatgttattt tctgaggaaa gccaagggtg
5701 agcatagttc tttccttcca tactgactgg tcgtccttgc caggaaacca qccagggatg
5761 cgtggtgctt ttctgacccc tggattcagc taggcaaaaa tgaaagctat tattttcctc
5821 attgggcaaa ccagaaaaga taaaatttgg gggaaattac atctttgtgt ggttagaaga
5881 agccatttct gtagatttgt ccacacctag tcctgtaatg cgtgtagagt ggggtgcaag
5941 cgtcttggag acacacaaac atgcgcataa cacccacatg ttgcacacac acattg
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- (2) INFORMATION FOR SEQ ID NO:2771:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 818 base pairs

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(B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2771
     1 acctetttet tttetgtett ttgaaaaaga gtgaatatat ttgeettett tttetetett
   61 tttctgggta ttcaatcttc tgggaagtcc aaacgtagct gaaaagagtg ttccttcaca
  121 gcttactagg agtaaaacaa aaagaaaaga aaagtgtttt ctatctatta ggttagtgca
  181 aaagccattg gcgttttggc cattatagtg gtatggatgt gggtactgta tactgacttt
  241 ggtttttcgt tttctgtttt taaagccaag cagatgccag tggaaatgtc caggtgagtg
  301 tatttgtaag aagggggggg ctgctctgtg agcacggtgg acatgtctgg agggagattc
  361 tggtcattag gaagttttca gtggctcttg gcaaacttag aaaaatatag gccttccttg
  481 cgtggaagaa tgccaattgt cctttcatgg gaaggaatgg cttttattct gagatcatgt
  541 ccttcctaca tgattatttg tgaaatctcc ctttctttat gaaattataa tggtagtaga
  601 taatttttta aaatttgaca aaatagagtt ggcctttaaa aaatggtttt actaccttta
  661 ctgttgttga aatcccaaat caaaagtata gaaatgattg ctctgttcca gagagaaaca
  721 gtagcgtggg ataagaattt cagggggctt ggtagtagcc tgtgaaggac tccggtattc
  781 atgtgtgctt tggtctgatg ttatttaata ggaaagtt
(2) INFORMATION FOR SEO ID NO: 2772:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 946 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2772
   1 aaaaaaaaa aaagttttt tacataatcc ttggagctgc caaaaaatat ttgttttcca
  61 aatgagagag taaagttttc cttaccttgg aaaactcttc ctggttttct catgatcttc
 121 ccttgtttac tttggtggtt tggggttaga acaataacaa caacaaatat atctatatat
 181 tgttttctgt ttttatattt cattttaaag gccagcagta ccacttctga actccaacaa
 241 cgagaaaatg tcagatccca atatggaagc taacagtcat tacggtaaag tcatgttctc
 301 ctgccattta taattccccc caacttgcta catacttcct tacccctctc agaagcagaa
 361 tatgtaagtg gtgggattac agttggaaga gaaaccctgg cttcaacagg gtacttcatc
 421 tcatcagcca ctgggccatg taatatacgg aaacgtaaaa ggaaaggtaa catattttat
 481 tctaactttg ccaccttcca aactccccgt agaagaaaga tggagaataa tcataatgcc
 541 ttcaaagact ttgaacattg ctccagcgta atattataat tctccatttt caagacagag
 601 acagatattg aatgaaacat tggtaaacat cttctcagat ggaattatta caagcacaag
 661 acagttttac ttcaaatttg gcacaaaggg aaagcaattt caatattctc tcagtaaagg
 721 cataaataaa gtgttccaac taagaaaata tctattcata aggctcatca gtagcttcag
 781 ggtcagctca gctgaatgag taggcagtcc taggagttct taatcccagg ttagtaagaa
 841 aattgeteaa geattteage aggatgetae ttaetteeea gaggggggta ttattaeate
 901 acaaaaagtc ctgtcccaga ccaaatttgg ggacactctt cctctt
(2) INFORMATION FOR SEQ ID NO:2773:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 645 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2773
   1 atagccacga ctcaaatata ttgatcttag aatctaaaag acttaggtct gggcgcggtg
  61 gctcacgcct gtaatctcaa cactttggga ggccgaggta ggtggatcac ttgaggtcag
 121 cagttcaaaa accacctggc caacatggtg taaccctgtt tctactaaaa atacaaaaaa
 181 ttagctgggc atggtggtag atgtttataa tcccagctac tcaggcaggc tgaggcagga
 241 gaataccett gaacctggga ggtggaggtt gcatgacctg a
   1 tggacctcaa catgcacacc agtccgagca acaagagcga aactccatct caaaaaagaa
  61 agaaagaaag aaactatatt caggccaggc atggtagttc atgcctataa ccccagctct
 121 ttgggaggct gaggtgggag gatcattgag cccaggagtt ggagaccagc ctgtgcaaca
 181 aagcgagaca tggagaatgt ggaacgaggg acccaggacc cagagacagt gctggttgtc
 241 actacactga ataaatcagg cttgactttg ttaggggtac tgaattttta aaagggtttt
 301 agaaaactag aatttccctt gtcactcacc ctaattgtta tttttcaact aggtcacaat
 361 gacgatgtca gaaaccatgc aatgaaacca ataaatgata ataaaggtaa ttatctaatt
 421 acatgttttt attagaacca acttttacat taaaaaaaag actcatagga aaagaaaact
 481 aaaacttgaa ggactgtgga taatttccca cctctcttaa tgaccctgta cccagccgat
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541 gtgtcaatga aggtagctag ctgctttcac cagagatgct atctagtgtc ctcagtggga

601 agtacctaaa tcaaagtagg gaagaactgg gttatactca aaaaa

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(2) INFORMATION FOR SEQ ID NO:2774:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 390 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2774
    1 acaacaactc tgtggtttct ttaggcagag cctctgaact cagacgtgca gtacacggaa
   61 gttcaagtgt ceteagetga gteteacaaa ggtaagtgee actegagtga gteeceagge .
  121 attcgctttg gcttgggttt aaaccccagt ggtggcgggg gtgctgtgtt cagtgagaag
  181 agtctgtgca ccctcagtcg ctccaaagga agtgattagc agacctaccg gcctgctaag
  241 actggaagga gcaaggcccc tggcctggcc tgtctctgag ctgtaaaatt tcaataattt
  301 aaaagaaaaa aagaaaaggc caggcactgt ggctcacacc tgtaatccta gcactttggg
  361 aggccaaggc gggtggatca cctgagatca
(2) INFORMATION FOR SEQ ID NO:2775:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 250 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2775
    1 tatattttat atattaatat ataaatataa atacatatat aatataaat atatgttttc
   61 tttgtgtata atatattt tataatattt tatatatttt tatttttat ttttatatat
  121 tttatatata atattttat atttatatta tttatatatt ttttatttta tatatata
  181 tatatttttt tttttctttg ttgagacgga gtctactctc tgcccaggct ggggtgcagt
  241 tgcgagatct
(2) INFORMATION FOR SEQ ID NO:2776:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 226 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2776
    1 tgcaaacctc tgcctccggg ttaaagcagc attctcctcc ctcagcctcc cgagtagctg
  61 ggattacagg catgtcaccg ccacagccgg gtaatttatt tattttttt ttgtatttt
 121 aagtagagat gggatttcac catgttggcc agcgtgaact cgaacttctg acttcaaaag
 181 atccacccc ctcagcctcc caaagtgctg ggattacagg tgtgag
(2) INFORMATION FOR SEQ ID NO:2777:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1147 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2777
   1 gaattcaatt tgagttttcc agacccgtcc tcctccttgg cagctaagga gcagtgtggg
  61 aagtcaggcc tgagcctcag gtgttccctc tctgccttcc tgtgggtgga gagccaggta
 121 ttaccaggta cgaaaagggg ctttgtgggt acaaggctca gtggtgagta catttgacct
 181 ggtcttgacc aagccagttc cctgctctca agacttcctc ctcctatgga ggaggggttg
 241 ggaaccacat ccagetetga eeetagtgge aggegaeeaa gtggteaett ggggtggagg
 301 aggggcagga aggaactcag taaatcctgg tttgctgcat gtttgctctg agactaattg
 361 ctgggaaaac cccatgacgt tggaagccat ctccttctct gttatcacag agaaaaacag
 421 aagccaaaat aaagccccat ccggaaacat ccctgacagc agagacaaag agcctgccag
 481 cctggtttac tcattagcaa gcagctgctc cctggagtgg gtggggagga gaggtagtga
 541 tgagctgcaa ctctgcctgc ccacccatca cttaactggg cagatttggg ggcagctgca
 601 actctagaag ctccaccaag aagcagaacc ccccaggccc aaacaccaag ccctctccct
 661 ccatttattc ctcacctgcc ccagccccca ctgtgggcct gggtgggagg gtgagctggc
 721 cgtgaccacc ccaccatgcg cctggtatat ggtgtttgat agcatttgtt gcagtgtctg
 781 cgttgtttgt gcacctgtct gcctcacagc ctggagctcc tgaaagctgg ggaccaggcc
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841 cgatcacctt tcctcttcca cagtgcgggg ttcacactag gtgtctagga ttctgctgag
  901 tgagtgattt ggccaggcct gacatcaagc agagggtgtc ttgggggatgt ggaggatccc
  961 ccaatagggt tggggatccc tacagcttcc cttgagggcc ccacatctgg tgccacagaa
 1021 agagagtgag gggtgtgtgg gcatctctgc tgtcccagca gtgtggtgcc ctggtagctc
 1081 agccactcta ctgagttcca aatcctgttt gggtgccctg ggggaagtca gtgtaagggc
 1141 ctagtca
(2) INFORMATION FOR SEQ ID NO:2778:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 2136 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2778
    1 aaggagggaa atccacttga ccatggcaca ggaacccccc ttacccaatc tgggccttcc
   61 ctttccccca tctgtaaaag gagaacagtg cccacacgac atcagcctct tttcctacag
  121 tgagccttcc tggccctttg tgcagtagac aggagctggg aagtgcccag gttccatcct
  181 gtttcctcag ggttggtggg tatgtatgtg tgtgcacacc ctgtgtgcat gagtgtgtgc
  241 acacccagat tgcatgtttg tacatacagt gtgtatacaa tgtgtgtaga cacatcctat
  301 acactgtatg agggtataca tagcatgtat acacattgtg tgcatgagtg tgcgtgtgta
  361 tatgctgtgt gtgtattttt gtatacacat cctgtgccca taccccagtg taaggtaaac
  421 agatggcagg aagggcgccc ttgagtctcc tccaggtata cgccacaccc tgggtcagtc
  481 atcatgctgc catattgaga gggtctagcc cagaggatct cagccctgtc tgcatattag
  541 ggcccctgag gagatcctaa aaaaccagca ccagggaccc ccccagacca atccaaccag
  601 aagetgeagt gaggeeeagg ageeageagt gaaaaeagee ageeeagetg tetatetetg
  661 taagagttet cagteceage tatteetagg gteactgaca acceecagge tetaaceeag
  721 acctcaggat cttgttctgg atcccggggt ctgggctctc aggtgattgg gaggccatag
  781 cccaaccetg cgttgaggga cctggcagaa tgtctggaca agggtcacgg tggcagggga
  841 agaggagtgg gggcagcaag ctggaggctg caggcccttg ctggggggct ctccatccgt
  901 gggcccctca ggtccagggg ttcctctggt gcatgtggcc ctgctccaca atggcctgct
  961 gacctcctat tcccagactg ggagtgacgc tcgttagacc aagacctcct tcttcttt
 1021 ctttttttt tttgggaggt ggtgtgtcac tgtgttgccc aggctggagt gcagtggcgc
 1081 aatcttggct cactgcaacc tctgcatcct gggttcaagc gattctcgtc ccttagctct
 1141 cgagtaactg ggatcacagg gacgcaccac catgcccggt taattttttg gaatttttag
 1201 tagagacggg gtttcggcat gttggccaga atggtctcaa cctcctgacc tcaagtgatc
 1261 ttgccccctc aacctcccaa agtgctggga ttacaggtat gagccacctt gcccagccag
 1321 gatettetaa cateagaaat gacaaggtet etgggtgett etggacetgg ttetggtggg
 1381 gtgcagtggt ggggtacagc cttgcctgca gagcctcaga ccttttccta tgactgcagt
 1441 ggactgacct cgttcccaga ggcagctact aacttatgcc tggtcctttt tccagatcta
 1501 ggaaagaagg acacagagac agtgtacagt gaagtccgga aagctgtccc tggtgagtga
1561 gggtctccag tgccccagcc tgggggatgc cccctataat cactgatggg ggcttgggag
1621 tgggcagaga aaagaagaag caaagaaggg caaaaaaggg gtggcacctc ttacaccagc
1681 gctgtgggct tcctctctc caccaccctt aaaaagtcac ctcgggtcac atttactatt
1741 catgtagtca acgagegett ettgaatget taetgaeece ageeggtgae eettaeetge
1801 tececacaca ggeeetggtg getggggtte eccaaggtet tggaegtega gtgttttget
1861 ttggagaccc ccagtagctt cagcctttct tcttgttttc ttttttctct ttttttttg
1921 gggatacgga gtctcgctct gtcactcagg ctggagtgca gtggtgcaat ctcgactcac
1981 tgcaacctcc acttcccgga tttaagtgat tctcctgcct cagcctccca agtagatggg
2041 attacaggcg cctgtcacca cactcagcta atttttttt tttatatttg ggagacagag
2101 tttcgctctt gatgcccagg ctggggtgca atggag
(2) INFORMATION FOR SEQ ID NO:2779:
   (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1183 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2779
   1 tgctgggatt accaagtgtg acccccgcc ccagcagctt cagcttttct gacaagaaga
  61 ctgactttgg gagtgggtgt gggtttgcgg atctactcta tttcctttgg ttcggctgcc
 121 cccacttcgc ttcccgtgac gacccactgc ttactcatga aagggcttcc cccagagctg
 181 agcacagage ttaagcagae eeggaaetgg gggageteaa caagteettt tttteggtgg
 301 ttctgaaggt aagtcagcaa tccgaaagac gtaaacattg tgggggaaat agtgactgtg
 361 tgagtatete getttgtaca geagacetet atttaagtgg gttettggaa agggaateat
 421 taaaatggtc caggacattt ctgcaaaggg tgcctactca gcctaggcgt ggtggctcat
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481 taagcactca gtaagtgctt tatttattta ccccaaataa ataaataaat ataaaaggat
 541 gactcctccg agtacagtcg ccaaaccagc agcagcaatc tcgggcccag cccagaccca
 601 caaaactagt ctctggaatc tgaacttagc cagcttcaga tgtttctgat gctgccaata
 661 tttgagaagc actgtttgtg ttttgttttg tttttttgtt tgaaacagag tctcactctg
 721 tcacccagac tggagtacag cagtgccatc tcagctgact gcaactccgt gcaacacccc
 781 ccagccccta aggcttaagc gatcctccca agtagctaga accacagaca cacaccacca
 841 tgcccagcta agtttttgta tttttggtag agatgaggtt ttaccatgtt gcccagactg
 901 gtgttgaatt cctgagctca agcaatccac cccttcggc ctcccaaagt gctgggatta
 961 caagcgtgag ccactgtgcc aggcaaaaag cactgtttta gaagaaccat ccaattctct
1021 gaggaccetg ctttttatct gaaatagcga tcacttctta attcactttt aaaagttggt
1081 atatctacaa gaagaataga aactcaaccc ttgtggaact tgaccctgaa taatttttga
1141 aaaaccaatt ctctggggaa tttttagctc aaatacctca ttt
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### (2) INFORMATION FOR SEQ ID NO:2780:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 209 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEO ID NO:2780
- 1 aaaaaaaaaa aaaaaaagaa gaagtagttt ctgcttttag tcagataaac aagctctggg
- 61 gagacttcct tctacatctg aaccagctca aaacaatcct tatgccaaag gggcatattt
- 121 tgtggtggca tattctgatt tccttcatct gctttagggc agctggctgt tcaagtgggt
- 181 tctctcgggg tctccaggtt ggttctaga

# (2) INFORMATION FOR SEQ ID NO:2781:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 326 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2781
- 1 ctttctttct ttcctttctt ttttttttt ttgagacagg gtcttcgctc tgtcacccag
- 61 gctggagtgc agtggcgcga tcgcagctca ctgcaacctc cagctcccgg gttcaagtga
- 121 ttcttctgcc tcagcctcct gagtagctgg gaccacagct actgccacca ccccgggta
- 181 atttttttg tatttttagt agagacggtg tttcaccata ttggtcaggc tgatctcgaa
- 241 ctccagacct caggtgatcc acctgccttg gcctcccaaa gtgctgggat aacaggtgtg
- 301 agacaccacg cccggccaga tcatat

## (2) INFORMATION FOR SEQ ID NO: 2782:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 634 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2782
- 1 gatcctatct acgggaaaca tgaagagtaa tattctactg tggcctgggt gaccctgggc
- 61 aagtcataga gcctctcaag accttggtca ccttctctgt gagatgaggt atgggctgga 121 ggcaggtcag tggtcctcgg gctttattaa aacatcaata gtttggcgca ccccactccc
- 181 tgtgaatttc ccattcacta ggtctggagc ggtgccgaaa acgtgcattt ctaacaggtg
- 241 tecacaegea getgetegee gacaegetgg ggeeeggget ttgagaacea etettgatge
- 301 agcatgttcc tttctgattg tgccacgcta aggctctgct tcttgttgga aggagtaggg
- 361 tettteteae cetecagaaa teetggaggg atettteage attggtggge aggtaaaace
- 421 cagaaacact gtgcttatta gagggaaggt tgtattgagt gacccccaat aaaacagggg
- 481 gcccagggcc gcgcgcagtg gctcacgcct gtaatcccag caatttggga ggctaaggcg
- 541 ggcggatcat gaggtcagga gatcgagacc atcctggcta acacggtgga aaccccatct
- 601 ctactaaaaa tacaaaaaat tagctggacg tggt

## (2) INFORMATION FOR SEQ ID NO:2783:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1063 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

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(D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2783
   1 agataagcaa tagggcatgg gcaggcctgc ctccaaggag cagccccagg gccgaggaga
   61 gagagetgge getggeecag gggaettgag tttgatggga aagettgeag acagtggggg
  121 agctgcctgg tctttccagt cttggctttt ggctctaagc acagcttttt tttttttt
  181 tttaattgtt gtatcatgag gcgccttcca ctcagctgcc tccccacgtt aggggatgga
  241 cacagcactg gcagggatcc tgtgtgtctc agtttcccta ttgactctct gtggcctaga
  301 gatgtatggt agaattccac actatgcttt ttttccaccg tgtttttttt tttttttt
  361 tttgagacag ggtctctctc tgtcacccag gctggagtgc agtggcgcaa tcttggctca
  421 ctgcaacete caceteecca ggcaggeece tetgaeteag etgggaetae aggeatgeae
  481 caccagcacc cagcaaaata tttttatatt ttagtagaga tggggtttcg tcacattggc
 541 caggetggte ttgaacteca gageteaage aateegeeeg ceteageete eeaaagtget
  601 gggattacaa tgcccagccc acttttttt ttacttttta caattttatt cttaaaattg
 661 tggtaaaaca catatcacat aaaatttacc attttaactc taagtatcca gctcagtggc
 721 actaagacta cacttttggt tgtcatagcg tggtgaacag agaagagaat gctactgcgt
 781 ctcgtggaga gaggccaggg gataccgcta aacatgcgac aatgcacagg acagtcccct
 841 ccccaccaca aaacaccacc cagcccaaaa tttcaacagg gccaccatgg agaaaccctg
 901 gccagaggaa ttcacctcct gcaactcctc caacaggaga gctggttttc ctctccagta
 961 ccagcttgtg gctgccctct gtcttgggag ggtgacttaa gggcacatcc cacctgatta
1021 ctgtgggctc tggatgggtg ctgagtcttg gtctggggaa cag
(2) INFORMATION FOR SEQ ID NO:2784:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1532 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2784
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1 aaattaccca ggcatggtgg tgtgcgcctg tagtcccacc aacttgggag gctgaggcag 61 gagaatteet tgaatetggg aggeggaggg tgeagtgage egagatagtg eeagetgagg 121 caggagaatt ccctggaggt agaggttacg gtgagccaag atggcgccac cacactccag 181 cctgagtgac aaagcgagac tctgtctcaa aaaaaaaaa ataaagaaaa ttttaaatga 241 agtgccaggg actttatgcg catgtcatgt ggagctagct acagggtccc ggggaagctg 301 tettgeacaa aggagecata aacetetaag ggeaetgeeg getgatgtet eetggetete 361 gcctcctccc tettttctcg acctgctcct gaccctgtga tgttgttggg gcagttgaac 421 tgggttattt gcgttgctca ctgccatgtc atcctttgtt ttgtagatgc cgtggaaagc 481 agatactctg taagtacaca tttcatatac attatattta aaagtactcc actgaacagt 541 gaaatatttc cagactcacc cacgcctgca ttcacacgaa ttcttccccg ctccctagcc 601 tgttcagacc agaagccctg ggcttctctg actagccttg gccagttctg atttcgaata 661 ttctctcctg caatttccat cattacatct cagcccacac gtgaagggat tgggactctg 721 gggtgcttag cgccaaacaa gcaaagcaca catttcgttt aacgccaaag tctaggctct 781 ggaagtgagg cagatctagg gtgtatgctt ggaggagtgg agcagctgac agctcattgc 841 aatttagccg atactaatta ccccctacac accaggccat cagctgcagg aggacaccca 901 agcttcttga cctcagttca ccttctgatg agggaatcag acatgtgatc acttatcata 961 aagccaagtg agctatgcca gagcctatgg gaacacagaa cagagaccta gctagtgccc 1021 tcttccccaa ggaatcattt ggaatggccc atgaagaatg aatggagtga tgatgccagc 1081 attgagggag aaagatcagc aggagcacaa gggtgaggga tgaccagttt caagcagtgt 1141 gggatgggaa agaagatgt gacagtgaca agtgacggga gaaagataag tcagggctta 1201 aatccaaagg atttacatcc cttgttaaga agcttcattc tgtaggaaat ggagttagga 1261 atctgcattt ggcagatggg agggtttatg aaagacacag aggcccacgt tcaacttttg 1321 caaagacgtg tettecaate ecaacetttt tgtgagetae ecageaatge aggagttaae 1381 tgggcagcta atatctgaag aaatgaggca tttgccgcat aaacttcttt taggtctggg 1441 aagaactttc agcaaagatt tcaggtagct cttccagtgg cccctggctt cctttgtttt 1501 gcccatgtca ggactcttgt aaaacagagc tc

## (2) INFORMATION FOR SEQ ID NO:2785:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 492 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2785
- 1 gagetecage tttccagetg tettttgggt gageetgtet teetcaaget caagetteet
- 61 tatctataaa gtggagatgg tgatgacaat gatgataaga gcaacctatt aggattttaa
- 121 ggatgaaatg agcaactgca accaccatat aaaagctgca agctgcaaac caccatataa

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181 aagctggttg atctcaagct cttttcatca cttgggcaat agtaggtgtg gatgggggac
 241 ttaacttgat ttggccatga aatgaccctg ccacatatgg agaatgtagc agttgcttac
 301 ccaaggcata ggattcaacc aaggccaggc tttgacttag gaatcagaga cccacattaa
 361 catttgactt cccgcttctt agccatgtca ccatgggcaa atttcttggc ctctcaagac
 421 ctctgcttcc taatctgtaa actgggaatc ataaactccc tcacttggtt gttgcaaggg
 481 ttgaatgagc ac
(2) INFORMATION FOR SEQ ID NO: 2786:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2069 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2786
   1 ctatcaatct ccagagcttt ttctttttaa gtgtgagcga gtttattaga gaagtaaaga
  61 gacccaagag tgcctactcc atagacagag cagccactgt gacactgtac ccattaaaca
 121 ctaactetee attgeceete cageaaceee tageaceeae tgtetaettt etgtetetat
 181 gtggttgtct atttgaggga catcacataa gtggagtcat atatttgtcc tttcatgtct
 241 cccttatttc atttagcata acgttttcaa gggtttcctg tgttgtgaat atatcagaat
 301 ttcattctct ttttaaggta gaatcatatc attttaaaac atttcagttg gaccatctaa
 361 gttcagtect tcattttcaa caattaaaaa acageeetca acegggtgca tetcaegtta
 421 gctagagaca gaactggagc tagaagtcag atctcttacc aaagttgcct ttcttctt
 481 gtgggtaagt ggggcaccct tgggacgctg tgctgggcgt acatgggtgc ttgatgaagt
 541 tacttggtgg actgatgtga ttgatgtcca acatgtatgc agggacagag gctatggtcc
 601 ctacagagca ggcatggaga gaaggagaaa tacatacggg caggagccag gagagggagg
 661 gtgtagtgag cagagaccgc gccactgcac tccagcctga gtgacagagt gagaatccat
 721 ctaaaaaatt gcttactaaa gaagtggtct cctgaggtct taagacgttc ctggcaatgt
 781 cttgagtggg tgggagagag cctccagtca ttgagctgtg gaatttcaga ggtgagaacc
 841 acacctaacc cccaattact ttcccctgtt tgcctcagtg acacagctgc aggaaccctg
 901 gtgggtgttg tattaagtaa atttgacctt tattctttgc agatctgtga aatgttgtct
 961 tetgagggge cacgtgtate tgtagtgetg aggaeteett ggggeetetg aagteacaga
1021 gagaacctgc agggtggggg accagtgtgt gacagccctg ctttgcattt tctttgagaa
1081 gtgctgtcat tttgcatttc tctccaccag gggaatcttc aatcttgaga ggtgtgatca
1141 taacttgcct tgtttcttgt cgctacagag aacggaaggc tcccttgatg gaacttagac
1201 agcaaggcca gatgcacatc cctggaagga catccatgtt ccgagaagaa cagatgatcc
1261 ctgtatttca agacctctgt gcacttattt atgaacctgc cctgctccca cagaacacag
1321 caatteetea ggetaagetg eeggttetta aateeateet getaagttaa tgttgggtag
1381 aaagagatac agaggggctg ttgaatttcc cacataccct ccttccacca agttggaaca
1441 tccttggaaa ttgggaagag cacaagagga gatccagggc aaggccattg ggatattctg
1501 aaacttgaat attttgtttt gtgcagagat aaagaccttt tccatgcacc ctcatacaca
1561 gaaaccaatt ttctttttta tactcaatca tttctagcgc atggcctggt tagaggctgg
1621 ttttttctct tttcctttgg tccttcaaag gcttgtagtt ttgggtagtc cttgttcttt
1681 ggaaatacac agtgctgacc agacagcctc cccctgtccc ctctatgacc tcgccctcca
1741 caaatgggaa aaccagacta cttgggagca ccgcctgtga aataccaacc tgaagacacg
1801 gttcattcag gcaacgcaca aaacagaaaa tgaaggtgga acaagcacat atgttcttca
1861 actgtttttg tctacactct ttctcttttc ctctacatgc tgaaggctga aagacaggaa
1921 agatggtgcc atcagcaaat attattctta attgaaaact tgaaatgtgt atgtttctta
1981 ctaattttta aaaatgtatt ccttgccagg gcaggcaagg tcgtcacgcc tgtaatccca
2041 gcacttcagg aggctgaggt gggcggatc
 (2) INFORMATION FOR SEQ ID NO: 2787:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2557 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2787
  1 gaatteeggg agaagtgace agageaattt etgettttea eagggegggt tteteaaegg
 61 tgacttgtgg gcagtgcctt ctgctgagcg agtcatggcc cgaaggcaga actaactgtg
121 cctgcagtct tcactctcag gatgcagccg aggtgggccc aaggggccac gatgtggctt
181 ggagteetge tgaccettet getetgttea ageettgagg gteaagaaaa etettteaca
241 atcaacagtg ttgacatgaa gagcctgccg gactggacgg tgcaaaatgg gaagaacctg
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301 accetgeagt gettegegga tgteageace aceteteaeg teaageetea geaceagatg 361 etgttetata aggatgaegt getgttttae aacateteet eeatgaagag cacagagagt

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421 tattttattc ctgaagtccg gatctatgac tcagggacat ataaatgtac tgtgattgtg
 481 aacaacaaag agaaaaccac tgcagagtac cagctgttgg tggaaggagt gcccagtccc
 541 agggtgacac tggacaagaa agaggccatc caaggtggga tcgtgagggt caactgttct
 601 gtcccagagg aaaaggcccc aatacacttc acaattgaaa aacttgaact aaatgaaaaa
 661 atggtcaagc tgaaaagaga gaagaattct cgagaccaga attttgtgat actggaattc
 721 cccqttgagg aacaggaccg cgttttatcc ttccgatgtc aagctaggat catttctggg
 781 atccatatgc agacctcaga atctaccaag agtgaactgg tcaccgtgac ggaatccttc
 841 totacaccca agttccacat cagccccacc ggaatgatca tggaaggagc tcagctccac
 901 attaagtgca ccattcaagt gactcacctg gcccaggagt ttccagaaat cataattcag
 961 aaggacaagg cgattgtggc ccacaacaga catggcaaca aggctgtgta ctcagtcatg
1021 gccatggtgg agcacagtgg caactacacg tgcaaagtgg agtccagccg catatccaag
1081 gtcagcagca tcgtggtcaa cataacagaa ctattttcca agcccgaact ggaatcttcc
1141 ttcacacate tggaccaagg tgaaagactg aacetgteet getecateee aggageacet
1201 ccagccaact tcaccatcca gaaggaagat acgattgtgt cacagactca agatttcacc
1261 aagatagcct caaagtcgga cagtgggacg tatatctgca ctgcaggtat tgacaaagtg
1321 gtcaagaaaa gcaacacagt ccagatagtc gtatgtgaaa tgctctccca gcccaggatt
1381 tcttatgatg cccagtttga ggtcataaaa ggacagacca tcgaagtccg ttgcgaatcg
1441 atcagtggaa ctttgcctat ttcttaccaa cttttaaaaa caagtaaagt tttggagaat
1501 agtaccaaga actcaaatga tcctgcggta ttcaaagaca accccactga agacgtcgaa
1561 taccagtgtg ttgcagataa ttgccattcc catgccaaaa tgttaagtga ggttctgagg
1621 gtgaaggtga tagccccggt ggatgaggtc cagatttcta tcctgtcaag taaggtggtg
1681 gagtctggag aggacattgt gctgcaatgt gctgtgaatg aaggatctgg tcccatcacc
1741 tataagtttt acagagaaaa agagggcaaa cccttctatc aaatgacctc aaatgccacc
1801 caggcatttt ggaccaagca gaaggctagc aaggaacagg agggagagta ttactgcaca
1861 gccttcaaca gagccaacca cgcctccagt gtccccagaa gcaaaatact gacagtcaga
1921 gtcattcttg ccccatggaa gaaaggactt attgcagtgg ttatcatcgg agtgatcatt
1981 gctctcttga tcattgcggc caaatgttat tttctgagga aagccaaggc caagcagatg
2041 ccagtggaaa tgtccaggcc agcagtacca cttctgaact ccaacaacga gaaaatgtca
2101 gatcccaata tggaagctaa cagtcattac ggtcacaatg acgatgtcag aaaccatgca
2161 atgaaaccaa taaatgataa taaagagcct ctgaactcag acgtgcagta cacggaagtt
2221 caagtgteet cagetgagte teacaaagat etaggaaaga aggacacaga gacagtgtae
2281 agtgaagtcc ggaaagctgt ccctgatgcc gtggaaagca gatactctag aacggaaggc
2341 tecettgatg gaacttagae ageaaggeea gatgeacate eetggaagga cateeatgtt
2401 ccgagaagaa cagataatcc ctgtatttca agacctctgt gcacttattt atgaacctgc
2461 cctgctccca cagaacacag caattcctca ggctaagctg ccggttctta aatccatcct
2521 gctaagttaa tgttgggtag aaagagatac agagggg
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# (2) INFORMATION FOR SEQ ID NO:2788:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 41693 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2788

				~			
	1	gaccagagca	atttctgctt	ttcacagggc	gggtttctca	acggtgactt	gtgggcagtg
	61	ccttctgctg	agcgagtcat	ggcccgaagg	cagaactaac	tgtgcctgca	gtcttcactc
	121	tcaggatgca	gccgaggtgg	gcccaagggg	ccacgatgtg	gcttggagtc	ctgctgaccc
	181	ttctgctctg	ttcaagcctt	gagggtcaag	aaaactcttt	cacaatcaac	agtgttgaca
	241	tgaagagcct	gccggactgg	acggtgcaaa	atgggaagaa	cctgaccctg	cagtgcttcg
	301	cggatgtcag	caccacctct	cacgtcaagc	ctcagcacca	gatgctgttc	tataaggatg
	361	acgtgctgtt	ttacaacatc	tcctccatga	agagcacaga	gagttatttt	attectgaag
	421	tccggatcta	tgactcaggg	acatataaat	gtactgtgat	tgtgaacaac	aaagagaaaa
	481	ccactgcaga	gtaccaggtg	ttggtggaag	gagtgcccag	tcccagggtg	acactggaca
	541	agaaagaggc	catccaaggt	gggatcgtga	gggtcaactg	ttctgtccca	gaggaaaagg
	601	ccccaataca	cttcacaatt	gaaaaacttg	aactaaatga	aaaaatggtc	aagctgaaaa
	661	gagagaagaa	ttctcgagac	cagaattttg	tgatactgga	attccccgtt	gaggaacagg
	721	accgcgtttt	atccttccga	tgtcaagcta	ggatcatttc	tgggatccat	atgcagacct
	781	cagaatctac	caagagtgaa	ctggtcaccg	tgacggaatc	cttctctaca	cccaagttcc
	841	acatcagccc	caccggaatg	atcatggaag	gagctcagct	ccacattaag	tgcaccattc
	901	aagtgactca	cctggcccag	gagtttccag	aaatcataat	tcagaaggac	aaggcgattg
	961	tggcccacaa	cagacatggc	aacaaggctg	tgtactcagt	catggccatg	gtggagcaca
1	.021	gtggcaacta	cacgtgcaaa	gtggagtcca	gccgcatatc	caaggtcagc	agcatcgtgg

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1081 tcaacataac agaactattt tccaagcccg aactggaatc ttccttcaca catctggacc
 1141 aaggtgaaag actgaacctg tcctgctcca tcccaggagc acctccagcc aacttcacca
 1201 tccagaagga agatacgatt gtgtcacaga ctcaagattt caccaagata gcctcaaagt
 1261 cggacagtgg gacgtatatc tgcactgcag gtattgacaa agtggtcaag aaaagcaaca
 1381 ttgaggtcat aaaaggacag accatcgaag tccgttgcga atcgatcagt ggaactttgc
 1441 ctatttctta ccaactttta aaaacaagta aagttttgga gaatagtacc aagaactcaa
 1501 atgatectge ggtatteaaa gacaacecea etgaagaegt egaataeeag tgtgttgeag
 1561 ataattgcca ttcccacgcc aaaatgttaa gtgaggttct gagggtgaag gtgatagccc
 1621 cggtggatga ggtccagatt tctatcctgt caagtaaggt ggtggagtct ggagaggaca
1681 ttgtgctgca atgtgctgtg aatgaaggat ctggtcccat cacctataag ttttacagag
 1741 aaaaagaggg caaacccttc tatcaaatga cctcaaatgc cacccaggca ttttggacca
 1801 agcagaaggc taacaaggaa caggagggag agtattactg cacagccttc aacagagcca
1861 accacgcctc cagtgtcccc agaagcaaaa tactgacagt cagagtcatt cttgccccat
1921 ggaagaaagg acttattgca gtggttatca tcggagtgat cattgctctc ttgatcattg
1981 cggccaaatg ttatttctg aggaaagcca aggccaagca gatgccagtg gaaatgtcca
2041 ggccagcagt accacttctg aactccaaca acgagaaaat gtcagatccc aatatggaag
2101 ctaacagtca ttacggtcac aatgacgatg tcggaaacca tgcaatgaaa ccaataaatg
2161 ataataaaga gcctctgaac tcagacgtgc agtacacgga agttcaagtg tcctcagctg
2221 agtctcacaa agatctagga aagaaggaca cagagacagt gtacagtgaa gtccggaaag
2281 ctgtccctga tgccgtggaa agcagatact ctagaacgga aggctccctt gatggaactt
2341 agacagcaag gccagatgca catccctgga aggacatcca tgttccgaga agaacagatg
2401 atccctgtat ttcaagacct ctgtcc
   1 gaattccggg agaagtgacc agagcaattt ctgcttttca cagggcgggt ttctcaacgg
  61 tgacttgtgg gcagtgcctt ctgctgagcg agtcatggcc cgaaggcaga actaactgtg
 121 cctgcagtct tcactctcag gatgcagccg aggtgggccc aaggggccac gatgtggctt
 181 ggagtcctgc tgacccttct gctctgttca agccttgagg gtcaagaaaa ctctttcaca
 241 atcaacagtg ttgacatgaa gagcctgccg gactggacgg tgcaaaatgg gaagaacctg
 301 accetgeagt gettegegga tgteageace accteteacg teaageetea geaceagatg
 361 ctgttctata aggatgacgt gctgttttac aacatctcct ccatgaagag cacagagagt
 421 tattttattc ctgaagtccg gatctatgac tcagggacat ataaatgtac tgtgattgtg
 481 aacaacaaag agaaaaccac tgcagagtac cagctgttgg tggaaggagt gcccagtccc
 541 agggtgacac tggacaagaa agaggccatc caaggtggga tcgtgagggt caactgttct
 601 gtcccagagg aaaaggcccc aatacacttc acaattgaaa aacttgaact aaatgaaaaa
 661 atggtcaagc tgaaaagaga gaagaattct cgagaccaga attttgtgat actggaattc
 721 cccgttgagg aacaggaccg cgttttatcc ttccgatgtc aagctaggat catttctggg
 781 atccatatgc agacctcaga atctaccaag agtgaactgg tcaccgtgac ggaatccttc
 841 totacaccca agttccacat cagocccaco ggaatgatca tggaaggago tcagotccac
 901 attaagtgca ccattcaagt gactcacctg gcccaggagt ttccagaaat cataattcag
 961 aaggacaagg cgattgtggc ccacaacaga catggcaaca aggctgtgta ctcagtcatg
1021 gccatggtgg agcacagtgg caactacacg tgcaaagtgg agtccagccg catatccaag
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# (2) INFORMATION FOR SEQ ID NO:2789:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 562 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2789
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#### (2) INFORMATION FOR SEQ ID NO:2790:

- (i) SEQUENCE CHARACTERISTICS:
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  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
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2341 gtgacccctt cttggaatac aacaactacg gctgctactg tggcttgggg ggctcaggca
2401 cccccgtgga tgaactggac aagtaagtga tccgcctgca ggaaaattgg agtgcctgcc
2461 gggggcgggg tggggcacca cgccaaggat ctcacgaggc atacaaaggg gacttgcata
2521 totgotaagg ataacatatt ttoacctott gtoaaataaa catatatqtt coaagaggac
2581 cctgtagcga acgcaccccg ttagagatgg aaacattgac cgacgtgcaa aacaqtgggc
2641 gatgctgccc tccagtggca gaatgtagca acattaaaca tcacagcacc tatccacgtg
2701 tcattttcta gcagtggttg tcactgcccc ttctggaata caggatttta ctgtattctt
2761 gcaaccatgt taaaaatcgc tttcaggcca ggcgcggtgg ctcatgcctg taatcccagc
2821 actttgggag gccgaggcgg gcggatcact tgaggtcagg agttcgagac cagcctggcc
2881 aacatggtga aaccctgtct ctactaaaaa atacaaaaat tagccggaca tggtggcgag
2941 cgcctgtaac cccagctact tgggagactg agttggaggt ttcatgagcc aaggtcgtgt
3001 cactgctgtc cagcctgggt aacagagcaa ctctgtctca aaaaaaaaa atgctttcaa
3061 taaatatatg ataaaaggac ttatattttt tcaagccata ggatcatttc tcctgaagca
3121 tcttggcgaa gtcatcccca cctgttcctg agagtgggca ggtgagggct gacctattgc
3181 tetgeactta etectatete agetgteeet eccaetttee aggtgetgee agacacatga
3241 caactgctac gaccaggcca agaagctgga cagctgtaaa tttctgctgg acaacccgta
3301 cacccacacc tattcatact cgtgctctgg ctcggcaatc acctgtagca gtaggtttat
3361 cccttccttg accta
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- (2) INFORMATION FOR SEQ ID NO:2791:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2834 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2791
  - 1 gcccactccc accgccagct ggaaccctgg ggactacgac gtccctcaaa ccttgcttct 61 aggagataaa aagaacatcc agtcatggat aaaaatgagc tggttcagaa ggccaaactg 121 gccgagcagg ctgagcgata tgatgacatg gcagcctgca tgaagtctgt aactgagcaa 181 ggagctgaat tatccaatga ggagaggaat cttctctcag ttgcttataa aaatgttgta 241 ggagcccgta ggtcatcttg gagggtcgtc tcaagtattg aacaaaagac ggaaggtgct 301 gagaaaaaac agcagatggc tcgagaatac agagagaaaa ttgagacqqa qctaaqaqat
  - 361 atctgcaatg atgtactgtc tcttttggaa aagttcttga tccccaatgc ttcacaagca

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421 gagagcaaag tottotattt gaaaatgaaa ggagattact accgttactt ggctgaggtt
 481 gccgctggtg atgacaagaa agggattgtc gatcagtcac aacaagcata ccaagaagct
 541 tttgaaatca gcaaaaagga aatgcaacca acacatccta tcagactggg tctggccctt
 601 aacttetetg tgttetatta tgagattetg aacteeceag agaaageetg etetettgea
 661 aagacagett ttgatgaage cattgetgaa ettgataeat taagtgaaga gteatacaaa
 721 gacagcacgc taataatgca attactgaga gacaacttga cattgtggac atcggatacc
 781 caaggagacg aagctgaagc aggagaagga ggggaaaatt aaccggcctt ccaacttttg
 841 tctgcctcat tctaaaattt acacagtaga ccatttgtca tccatgctgt cccacaaata
 901 gttttttgtt tacgatttat gacaggttta tgttacttct atttgaattt ctatatttcc
 961 catgtggttt ttatgtttaa tattagggga gtagagccag ttaacattta gggagttatc
1021 tgttttcatc ttgaggtggc caatatgggg atgtggaatt tttatacaag ttataagtgt
1081 ttggcatagt acttttggta cattgtggct tcaaaagggc cagtgtaaaa ctgcttccat
1141 gtctaagcaa agaaaactgc ctacatactg gtttgtcctg gcggggaata aaagggatca
1201 ttggttccag tcacaggtgt agtaattgtg ggtactttaa ggtttggagc acttacaagg
1261 ctgtggtaga atcatacccc atggatacca catattaaac catgtatatc tgtggaatac
1321 tcaatgtgta cacctttgac tacagctgca gaagtgttcc tttagacaaa gttgtgaccc
1381 attttactct ggataagggc agaaacggtt cacattccat tatttgtaaa gttacctgct
1441 gttagctttc attatttttg ctacactcat tttatttgta tttaaatgtt ttaggcaacc
1501 taagaacaaa tgtaaaagta aagatgcagg aaaaatgaat tgcttggtat tcattacttc
1561 atgtatatca agcacagcag taaaacaaaa acccatgtat ttaacttttt tttaggattt
1621 ttgcttttgt gattttttt ttttttttt gatacttgcc taacatgcat gtgctgtaaa
1681 aatagttaac agggaaataa cttgagatga tggctagctt tgtttaatgt cttatgaaat
1741 tttcatgaac aatccaagca taattgttaa gaacacgtgt attaaattca tgtaagtgga
1801 ataaaagttt tatgaatgga cttttcaact actttctcta cagcttttca tgtaaattag
1861 tcttggttct gaaacttctc taaaggaaat tgtacattct ttgaaattta ttccttattc
1921 cctcttggca gctaatgggc tcttaccaag tttaaacaca aaatttatca taacaaaaat
1981 actactaata taactactgt ttccatgtcc catgatcccc tctcttcctc cccaccctga
2041 aaaaaatgag ttcctatttt ttctgggaga gggggggatt gattagaaaa aaatgtagtg
2101 tgttccattt aaaattttgg catatggcat tttctaactt aggaagccac aatgttcttg
2161 gcccatcatg acattgggta gcattaactg taagttttgt gcttccaaat cactttttgg
2221 tttttaagaa tttcttgata ctcttatagc ctgccttcaa ttttgatcct ttattctttc
2281 tatttgtcag gtgcacaaga ttaccttcct gttttagcct tctgtcttgt caccaaccat
2341 tettacttgg tggccatgta ettggaaaaa ggccgcatga tetttetgge tecaetcagt
2401 gtctaaggca ccctgcttcc tttgcttgca tcccacagac tatttccctc atcctattta
2461 ctgcagcaaa tctctcctta gttgatgaga ctgtgtttat ctccctttaa aaccctacct
2521 atcctgaatg gtctgtcatt gtctgccttt aaaatccttc ctctttcttc ctcctctatt
2581 ctctaaataa tgatggggct aagttatacc caaagctcac tttacaaaat atttcctcag
2641 tactttgcag aaaacaccaa acaaaaatgc cattttaaaa aaggtgtatt ttttcttta
2701 gaatgtaagc tcctcaagag cagggacaat gttttctgta tgttctattg tgcctagtac
2761 actgtaaatg ctcaataaat attgatgatg ggaggcagtg agtcttgatg ataagggtga
2821 gaaactgaaa tccc
```

- (2) INFORMATION FOR SEQ ID NO:2792:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 6771 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2792
- 1 tggtcatct agtttcttt ctcaccttga ctgcaagatg aaactccttg tgctagctgt
  61 gctgctcaca gtggccgccg ccgacagcgg catcagccct cgggccgtgt ggcagttccg
  121 caaaatgatc aagtgcgtga tcccggggag tgaccccttc ttggaataca acaactacgg
  181 ctgctactgt ggcttggggg gctcaggcac ccccgtggat gaactggaca agtgctgcca
  241 gacacatgac aactgctatg accaggcaa gaagctggac agctgtaaat ttctgctgga
  301 caacccgtac acccacacct attcatactc gtgctctggc tcggcaatca cctgtagcag
  361 caaaaacaaa gagtgtgagg ccttcatttg caactgcgac cgcaacgctg ccatctgctt
  421 ttcaaaagct ccatataaca aggcacacaa gaacctggac accaagaagt attgtcagag
  481 ttgaatatca cctctcaaaa gcatcacctc tatctgcctc atcacacct gtactcca
  541 ataaagcacc ttgttgaaag aa
  563 ctgcagaggc tcaatcactg ttcattgcag ccttgacctc cctggctcac gagatcctcc
  623 catctcagcc tcctgagttg ctgggatcac aggtgcaatc caccaccaca cctggttaac
  683 attttttt ttagagatga ggtctctcta tgttgcccag gctgcacttc cttcttgtct

740						
		agcgtccgac				
		acaaagtggt				
		ttggttaaca				
		aatcgtgagg				
		gcaaagcaaa				
		tacctgagac				
		gctagctgtg				
		agtgagctaa				
		gccccgcagt				
		tcaaggctgg				
		ttgcctttat			_	
		tggcatgatc	-	_		
		actcaactaa				
		tattttactt				
		gggctgatct				
		cctctcaagt aattttttgt				
		acctcccttt				
		agtttcctta				
		tgtgcccaag				
		gttcacgcca				
		cgccccgcta	_	_		
		ggtctcgatc				
		gcatgagcca				
		ggttgtaagc				
		tattattatt				
		catagtaagt				
		gacctaggga				
		ctgaaatcgt				
	-	aaaaaaaac				
		gggtcccaga				
		aaagatataa				
		tttcacttta				
		gggaggcagc				
		ccgatttgaa				
		tcgggccgtg				
2903	gtgacccctt	cttggaatac	aacaactacg	gctgctactg	tggcttgggg	ggctcaggca
2963	ccccgtgga	tgaactggac	aagtaagtga	tccgcctgca	ggaaaattgg	agtgcctgcc
3023	gggggcgggg	tggggcacca	cgccaaggat	ctcacgaggc	atacaaaggg	gacttgcata
3083	tctgctaagg	ataacatatt	ttcacctctt	gtcaaataaa	catatatgtt	ccaagaggac
3143	cctgtagcga	acgcaccccg	ttagagatgg	aaacattgac	cgacgtgcaa	aacagtgggc
3203	gatgctgccc	tccagtggca	gaatgtagca	acattaaaca	tcacagcacc	tatccacgtg
3263	tcattttcta	gcagtggttg	tcactgcccc	ttctggaata	caggatttta	ctgtattctt
		taaaaatcgc				
		gccgaggcgg				
		aaccctgtct				
		cccagctact				
		cagcctgggt				
		ataaaaggac				
		gtcatcccca				
		ctcctatctc				
		gaccaggcca				
		tattcatact	cgtgctctgg	ctcggcaatc	acctgtagca	gtaggtttat
	cccttccttg					
		accgccagct				
		aagaacatcc				
		ctgagcgata				
		tatccaatga				
		ggtcatcttg				
		agcagatggc				
		atgtactgtc tcttctattt				
4330	yayaycaaag	concoract	yaaaatyadd	gyayattatt	accyclacit	ggctgaggtt

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4418 gccgctggtg atgacaagaa agggattgtc gatcagtcac aacaagcata ccaagaagct
4478 tttgaaatca gcaaaaagga aatgcaacca acacatccta tcagactggg tctggccctt
4538 aacttctctg tgttctatta tgagattctg aactccccag agaaagcctg ctctcttgca
4598 aagacagctt ttgatgaagc cattgctgaa cttgatacat taagtgaaga gtcatacaaa
4658 gacagcacgc taataatgca attactgaga gacaacttga cattgtggac atcggatacc
4718 caaggagacg aagctgaagc aggagaagga ggggaaaatt aaccggcctt ccaacttttg
4778 tctgcctcat tctaaaattt acacagtaga ccatttgtca tccatgctgt cccacaaata
4838 gttttttgtt tacgatttat gacaggttta tgttacttct atttgaattt ctatatttcc
4898 catgtggttt ttatgtttaa tattagggga gtagagccag ttaacattta gggagttatc
4958 tgttttcatc ttgaggtggc caatatgggg atgtggaatt tttatacaag ttataagtgt
5018 ttggcatagt acttttggta cattgtggct tcaaaagggc cagtgtaaaa ctgcttccat
5078 gtctaagcaa agaaaactgc ctacatactg gtttgtcctg gcggggaata aaagggatca
5138 ttggttccag tcacaggtgt agtaattgtg ggtactttaa ggtttggagc acttacaagg
5198 ctgtggtaga atcatacccc atggatacca catattaaac catgtatatc tgtggaatac
5258 tcaatgtgta cacctttgac tacagctgca gaagtgttcc tttagacaaa gttgtgaccc
5318 attttactct ggataagggc agaaacggtt cacattccat tatttgtaaa gttacctgct
5378 gttagctttc attatttttg ctacactcat tttatttgta tttaaatgtt ttagqcaacc
5438 taagaacaaa tgtaaaagta aagatgcagg aaaaatgaat tgcttggtat tcattacttc
5498 atgtatatca agcacagcag taaaacaaaa acccatgtat ttaacttttt tttaggattt
5558 ttgcttttgt gatttttttt ttttttttt gatacttgcc taacatgcat gtgctgtaaa
5618 aatagttaac agggaaataa cttgagatga tggctagctt tgtttaatgt cttatgaaat
5678 tttcatgaac aatccaagca taattgttaa gaacacgtgt attaaattca tgtaagtgga
5738 ataaaagttt tatgaatgga cttttcaact actttctcta cagcttttca tgtaaattag
5798 tcttggttct gaaacttctc taaaggaaat tgtacattct ttgaaattta ttccttattc
5858 cctcttggca gctaatgggc tcttaccaag tttaaacaca aaatttatca taacaaaaat
5918 actactaata taactactgt ttccatgtcc catgatcccc tctcttcctc cccaccctga
5978 aaaaaatgag ttcctatttt ttctgggaga gggggggatt gattagaaaa aaatgtagtg
6038 tgttccattt aaaattttgg catatggcat tttctaactt aggaagccac aatgttcttg
6098 gcccatcatg acattgggta gcattaactg taagttttgt gcttccaaat cactttttgg
6158 tttttaagaa tttcttgata ctcttatagc ctgccttcaa ttttgatcct ttattctttc
6218 tatttgtcag gtgcacaaga ttaccttcct gttttagcct tctgtcttgt caccaaccat
6278 tettaettgg tggecatgta ettggaaaaa ggeegeatga tetttetgge tecaeteagt
6338 gtctaaggca ccctgcttcc tttgcttgca tcccacagac tatttccctc atcctattta
6398 ctgcagcaaa tctctcctta gttgatgaga ctgtgtttat ctccctttaa aaccctacct
6458 atcctgaatg gtctgtcatt gtctgccttt aaaatccttc ctctttcttc ctcctctatt
6518 ctctaaataa tgatggggct aagttatacc caaagctcac tttacaaaat atttcctcag
6578 tactttgcag aaaacaccaa acaaaaatgc cattttaaaa aaggtgtatt ttttctttta
6638 gaatgtaagc teeteaagag cagggacaat gttttetgta tgttetattg tgeetagtae
6698 actgtaaatg ctcaataaat attgatgatg ggaggcagtg agtcttgatg ataagggtga
6758 gaaactgaaa tccc
```

## (2) INFORMATION FOR SEQ ID NO:2793:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 495 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2793
- 1 gctgtgcaac ctcggcgcca tgcgcaacct ctatgcgatg caccggcggc tgcagcggca
- 61 cccgcgctcc tgcaccaggg actgtgccga gccgcgcgcg gacgggaggg aagcgtcccc
- 121 tcagccctg gaggagctgg atcacctcct gctgctggcg ctgatgaccg tgctcttcac
- 181 tatgtgttct ctgcccgtaa tttatcgcgc ttactatgga gcatttaagg atgtcaagga
- 241 gaaaaacagg acctctgaag aagcagaaga cctccgagcc ttgcgatttc tatctgtgat
- 301 ttcaattgtg gaccettgga tttttateat tttcagatet ccagtattte ggatatttt
- 361 tcacaagatt ttcattagac ctcttaggta caggagccgg tgcagcaatt ccactaacat
- 421 ggaatccagt ctgtgacagt gtttttcact ctgtggtaag ctgaggaata tgtcacattt
- 481 tcagtcaaag aacca

# (2) INFORMATION FOR SEQ ID NO:2794:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1216 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single



(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2794

1 gaattetgge tatttteete etgeegttee gaeteggeae eagagtetgt etetaetgag 61 aacgcagcgc gtcagggccg agctcttcac tggcctgctc cgcgctcttc aatgccagcg 121 ccaggegete accetgeaga gegteeegee teteaaagag gggtgtgace egegagttta 181 gataggaggt tectgeegtg gggaacaeee egeegeeete ggagettttt etgtggegea 241 getteteege eegageegeg egeggagetg eegggggete ettageacee gggegeeggg 301 gccctcgccc ttccgcagcc ttcactccag ccctctgctc ccgcacgcca tgaagtcgcc 361 gttctaccgc tgccagaaca ccacctctgt ggaaaaaggc aactcggcgg tgatgggcgg 421 ggtgctcttc agcaccggcc tcctgggcaa cctgctggcc ctggggctgc tgqcqcqctc 481 ggggctgggg tggtgctcgc ggcgtccact gcgcccgctg ccctcggtct tctacatgct 541 ggtgtgtgc ctgacggtca ccgacttgct gggcaagtgc ctcctaagcc cggtggtgct 601 ggctgcctac gctcagaacc ggagtctgcg ggtgcttgcg cccqcattqq acaactcqtt 661 gtgccaagcc ttcgccttct tcatgtcctt ctttgggctc tcctcgacac tgcaactcct 721 ggccatggca ctggagtgct ggctctccct agggcaccct ttcttctacc gacggcacat 781 caccetgege etgggegeae tggtggeece ggtggtgage geetteteee tqqetttetq 841 cgcgctacct ttcatgggct tcgggaagtt cgtgcagtac tgccccggca cctggtgctt 901 tatccagatg gtccacgagg agggctcgct gtcggtgctg gggtactctg tgctctactc 961 cagceteatg gegetgetgg teetegeeac egtgetgtge aaceteggeg ceatgegeaa 1021 cctctatgcg atgcaccggc ggctgcagcg gcacccgcgc tcctgcacca gggactgtgc 1081 cgagccgcgc gcggacggga gggaagcgtc ccctcagccc ctggaggagc tggatcacct 1141 cctgctgctg gcgctgatga ccgtgctctt cactatgtgt tctctgcccg taattgtgag 1201 tccccgggcc ccgagg

## (2) INFORMATION FOR SEQ ID NO:2795:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2372 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2795

61 ttcctctgag tctcggaacg ctccagctct cagaccctct tcctcccagg taaaggccgg 121 gagaggaggg cgcatctctt ttccaggcac cccaccatgg gcaatgcctc caatgactcc 181 cagtctgagg actgcgagac gcgacagtgg cttcccccag gcgaaagccc agccatcagc 241 tecgteatgt teteggeegg ggtgetgggg aaceteatag caetggeget getggegege 301 cgctggcggg gggacgtggg gtgcagcgcc ggccgcagga gctccctctc cttgttccac 361 gtgctggtga ccgagctggt gttcaccgac ctgctcggga cctgcctcat cagcccagtg 421 gtactggctt cgtacgcgcg gaaccagacc ctggtggcac tggcgcccga gagccgcgcg 481 tgcacctact tcgctttcgc catgaccttc ttcagcctgg ccacgatgct catgctcttc 541 gccatggccc tggagcgcta cctctcgatc gggcacccct acttctacca gcgccgcgtc 601 tcggcctccg ggggcctggc cgtgctgcct gtcatctatg cagtctccct gctcttctgc 661 tcgctgccgc tgctggacta tgggcagtac gtccagtact gccccgggac ctggtgcttc 721 atccggcacg ggcggaccgc ttacctgcag ctgtacgcca ccctgctgct gcttctcatt 781 gtctcggtgc tcgcctgcaa cttcagtgtc attctcaacc tcatccgcat gcaccgccga 841 agccggagaa gccgctgcgg accttccctg ggcagtggcc ggggcggccc cggggcccgc 901 aggagaggg aaagggtgtc catggcggag gagacggacc acctcattct cctggctatc 961 atgaccatca ccttcgccgt ctgctccttg cctttcacga tttttgcata tatgaatgaa 1021 acctcttccc gaaaggaaaa atgggacctc caagctctta ggtttttatc aattaattca 1081 ataattgacc cttgggtctt tgccatcctt aggcctcctg ttctgagact aatgcgttca 1141 gtcctctgtt gtcggatttc attaagaaca caagatgcaa cacaaacttc ctgttctaca 1201 cagtcagatg ccagtaaaca ggctgacctt tgaggtcagt agtttaaaag ttcttagtta 1261 tatagcatct ggaagatcat tttgaaattg ttccctggag aaatgaaaac agtgtgtaaa 1321 caaaatgaag ctgccctaat aaaaaggagt atacaaacat ttaagctgtg gtcaaggcta 1381 cagatgtgct gacaaggcac ttcatgtaaa gtgtcagaag gagctacaaa acctaccctc 1441 aatgagcatg gtacttggcc tttggaggaa caatcggctg cattgaagat ccagctgcct 1501 attgatttaa gctttcctgt tgaatgacaa agtatgtggt tttgtaattt gtttgaaacc 1561 ccaaacagtg actgtacttt ctattttaat cttgctacta ccgttataca catatagtgt 1621 acagccagac cagattaaac ttcatatgta atctctagga agtcaatatg tggaagcaac 1681 caagcctgct gtcttgtgat cacttagcga accctttatt tgaacaatga agttgaaaat 1741 cataggcacc ttttactgtg atgtttgtgt atgtgggagt actctcatca ctacagtatt 1801 actettacaa gagtggacte agtgggttaa cateagtttt gtttacteat eetecaggaa

1 gggccgccgt cggcgcgctg ggtgcgggaa gggggctctg gatttcggtc cctcccttt

```
1861 ctgcaggtca agttgtcagg ttatttattt tataatgtcc atatgctaat agtgatcaag
 1921 aagactttag gaatggttct ctcaacaaga aataatagaa atgtctcaag gcagttaatt
 1981 ctcattaata ctcttattat cctatttctg ggggaggatg tacgtggcca tgtatgaagc
 2041 caaatattag gcttaaaaac tgaaaaatct ggttcattct tcagatatac tggaaccctt
 2101 ttaaagttga tattggggcc atgagtaaaa tagattttat aagatgactg tgttgtacca
 2161 aaattcatct gtctatattt tatttagggg aacatggttt gactcatctt atatgggaaa
 2221 ccatgtagca gtgagtcata tcttaatata tttctaaatg tttggcatgt aaatgtaaac
 2281 tcagcatcaa aatatttcag tgaatttgca ctgtttaatc atagttactg tgtaaactca
 2341 tctgaaatgt tacaaaaata aactataaaa ca
(2) INFORMATION FOR SEQ ID NO: 2796:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1682 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2796
    1 agagaggaag gcgtggctcc ctcccgggcc agtgagccct ggcgccgccg cggccgcggt
   61 cccagcagcg gagtagggcg gcggctgcgc cccgcaccat ggggggcagc ccagccccag
  121 ccgcggtaaa cgccgacctc cgccgccgcc cgcgccgcgt ctgccccctc ccgctgcggc
  181 tetetggacg ccateccete etcacetega agecaacatg aaggagacee ggggetaegg
  241 aggggatgcc cccttctgca cccgcctcaa ccactcctac acaggcatgt gggcgcccga
  301 gcgttccgcc gaggcgcggg gcaacctcac gcgccctcca gggtctggcg aggattgcgg
  361 atcggtgtcc gtggccttcc cgatcaccat gctgctcact ggtttcgtgg gcaacgcact
  421 ggccatgctg ctcgtgtcgc gcagctaccg gcgccgggag agcaagcgca agaagtcctt
  481 cctgctgtgc atcggctggc tggcgctcac cgacctggtc gggcagcttc tcaccacccc
 541 ggtcgtcatc gtcgtgtacc tgtccaagca gcgttgggag cacatcgacc cgtcggggcg
 601 gctctgcacc tttttcgggc tgaccatgac tgttttcggg ctctcctcgt tgttcatcgc
 661 cagcgccatg gccgtcgagc gggcgctggc catcagggcg ccgcactggt atgcgagcca
 721 catgaagacg cgtgccaccc gcgctgtgct gctcggcgtg tggctggccg tgctcgcctt
 781 cgccctgctg ccggtgctgg gcgtgggcca gtacaccgtc cagtggcccg ggacgtggtg
 841 cttcatcagc accgggcgag ggggcaacgg gactagctct tcgcataact ggggcaacct
 901 tttcttcgcc tctgcctttg ccttcctggg gctcttggcg ctgacagtca ccttttcctg
 961 caacctggcc accattaagg ccctggtgtc ccgctgccgg gccaaggcca cggcatctca
1021 gtccagtgcc cagtggggcc gcatcacgac cgagacggcc attcagctta tggggatcat
1081 gtgcgtgctg tcggtctgct ggtctccgct cctgataatg atgttgaaaa tgatcttcaa
1141 tcagacatca gttgagcact gcaagacaca cacggagaag cagaaagaat gcaacttctt
1201 cttaatagct gttcgcctgg cttcactgaa ccagatcttg gatccttggg tttacctgct
1261 gttaagaaag atccttcttc gaaagttttg ccaggtagca aatgctgtct ccagctgctc
1321 taatgatgga cagaaagggc agcctatctc attatctaat gaaataatac agacagaagc
1381 atgaaagaaa acacttaact tgcatgtgca cagcttctgg taacaaatat cgctaaacct
1441 tactgtgaat ttaggcatct ctggcatgcc actgtttatg cattgaagtg gaatttttgg
1501 tataaagcta aatggtctta gaagcataga aaatccctat gtgccaaaag tagtgaaaca
1561 caaacaaagg aaaatatatt aataacagtc tagtgttttt gttgagtctg ccattcgtag
1621 ctgaatatgt gattaattat gtgatgaaaa ctttttttat aaatgatctt ggtctattgg
1681 gg
(2) INFORMATION FOR SEQ ID NO:2797:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1870 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2797
   1 cccgggccag tgagccctgg cgccgccgcg gccgcggtcc cagcagcgga gtagggcggc
  61 ggctgcgccc cgcaccatgg ggggcagccc agccccagcc gcggtaaacg ccgacctccg
 121 ccgccgcccg cgccgcgtct gcccctccc gctgcggctc tctggacgcc atccctcct
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 241 cgcctcaacc actcctacac aggcatgtgg gcgcccgagc gttccgccga ggcgcggggc
 301 aacctcacgc gccctccagg gtctggcgag gattgcggat cggtgtccgt ggccttcccg
 361 atcaccatgc tgctcactgg tttcgtgggc aacgcactgg ccatgctgct cgtgtcgcgc
 421 agctaccggc gccgggagag caagcgcaag aagtccttcc tgctgtgcat cggctggctg
 481 gcgctcaccg acctggtcgg gcagcttctc accaccccgg tcgtcatcgt cgtgtacctg
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541 tocaagcage gttgggagea categaceeg teggggegge tetgeacett tttegggetg
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 661 gcgctggcca tcagggcgcc gcactggtat gcgagccaca tgaagacgcg tgccacccgc
 721 gctgtgctgc tcggcgtgtg gctggccgtg ctcgccttcg ccctgctgcc ggtgctgggc
 781 gtgggccagt acaccgtcca gtggcccggg acgtggtgct tcatcagcac cgggcgaggg
 841 ggcaacggga ctagctcttc gcataactgg ggcaaccttt tcttcgcctc tgcctttgcc
 901 ttcctggggc tcttggcgct gacagtcacc ttttcctgca acctggccac cattaaggcc
 961 ctggtgtccc gctgccgggc caaggccacg gcatctcagt ccagtgccca gtggggccgc
1021 atcacgaccg agacggccat tcagcttatg gggatcatgt gcgtgctgtc ggtctgctgg
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1141 aagacacaca cggagaagca gaaagaatgc aacttettet taatagetgt tegeetgget
1201 tcactgaacc agatcttgga tccttgggtt tacctgctgt taagaaagat ccttcttcga
1261 aagttttgcc agatcaggta ccacacaaac aactatgcat ccagctccac ctccttaccc
1321 tgccagtgtt cctcaacctt gatgtggagc gaccatttgg aaagataatg aaagaacgga
1381 gttggacatt ttattgcaat tcctgcttcc ctgaatttgc atatttcttc ccacctgaga
1441 aggataatta tatattttaa tttggattat ttcttcattt ttatcttttt attttaatga
1501 ttgttttgtc agtaataccc atggagatca actttattat tataatccat gcctctgaat
1561 attagattgg tttcttggat gggattttga atatgcattt aagaagttgg gaagaatttc
1621 acagatgatg attggaggaa aagtgatgaa aagaaagacc tgtgttccag gagttttctc
1681 caacttcaaa cctttacgtg aatcttaacc aaagtggaca tctttacatt tcatgatagc
1741 ttgcttttgc aatatgagtt tgaaaaatca gtataagctt atgatggtga aaagtcaaca
1801 tattgagagt gataattcaa ttaataggat atgaacttaa cgatataaaa gcaaatgagg
1861 gcaggagggg
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## (2) INFORMATION FOR SEQ ID NO:2798:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1682 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2798

```
1 agagaggaag gcgtggctcc ctcccgggcc agtgagccct ggcgccgccg cggccgcggt
  61 cccagcagcg gagtagggcg gcggctgcgc cccgcaccat ggggggcagc ccagcccag
 121 ccgcggtaaa cgccgacctc cgccgccgcc cgcgccgcgt ctgccccctc ccgctgcggc
 181 tctctggacg ccatccctc ctcacctcga agccaacatg aaggagaccc ggggctacgg
 241 aggggatgcc cccttctgca cccgcctcaa ccactcctac acaggcatgt gggcgcccga
 301 gcgttccgcc gaggcgcggg gcaacctcac gcgccctcca gggtctggcg aggattgcgg
 361 atcggtgtcc gtggccttcc cgatcaccat gctgctcact ggtttcgtgg gcaacgcact
 421 ggccatgctg ctcgtgtcgc gcagctaccg gcgccgggag agcaagcgca agaagtcctt
 481 cctgctgtgc atcggctggc tggcgctcac cgacctggtc gggcagcttc tcaccacccc
 541 ggtcgtcatc gtcgtgtacc tgtccaagca gcgttgggag cacatcgacc cgtcggggcg
 601 gctctgcacc tttttcgggc tgaccatgac tgttttcggg ctctcctcgt tgttcatcgc
 661 cagcgccatg gccgtcgagc gggcgctggc catcagggcg ccgcactggt atgcgagcca
 721 catgaagacg cgtgccaccc gcgctgtgct gctcggcgtg tggctggccg tgctcgcctt
 781 cgccctgctg ccggtgctgg gcgtgggcca gtacaccgtc cagtggcccg ggacgtggtg
 841 cttcatcagc accgggcgag ggggcaacgg gactagctct tcgcataact ggggcaacct
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 961 caacctggcc accattaagg ccctggtgtc ccgctgccgg gccaaggcca cggcatctca
1021 gtccagtgcc cagtggggcc gcatcacgac cgagacggcc attcagctta tggggatcat
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1261 gttaagaaag atccttcttc gaaagttttg ccaggtagca aatgctgtct ccagctgctc
1321 taatgatgga cagaaagggc agcctatctc attatctaat gaaataatac agacagaagc
1381 atgaaagaaa acacttaact tgcatgtgca cagcttctgg taacaaatat cgctaaacct
1441 tactgtgaat ttaggcatct ctggcatgcc actgtttatg cattgaagtg gaatttttgg
1501 tataaagcta aatggtctta gaagcataga aaatccctat gtgccaaaag tagtgaaaca
1561 caaacaaagg aaaatatatt aataacagtc tagtgttttt gttgagtctg ccattcgtag
1621 ctgaatatgt gattaattat gtgatgaaaa cttttttat aaatgatctt ggtctattgg
1681 gg
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(2) INFORMATION FOR SEQ ID NO:2799:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2799 1 agagaggaag gcgtggctcc ctcccgggcc agtgagccct ggcgccgccg cggccgcggt 61 cccagcagcg gagtagggcg gcggctgcgc cccgcaccat ggggggcagc ccagccccag 121 ccgcggtaaa cgccgacctc cgccgccgcc cgcgccgcgt ctgccccctc ccgctgcggc 181 tetetggacg ceatecete eteacetega agecaacatg aaggagacee ggggetaegg 241 aggggatgcc cccttctgca cccgcctcaa ccactcctac acaggcatgt gggcgcccga 301 gcgttccgcc gaggcgcggg gcaacctcac gcgccctcca gggtctggcg aggattgcgg 361 atcggtgtcc gtggccttcc cgatcaccat gctgctcact ggtttcgtgg gcaacgcact 421 ggccatgctg ctcgtgtcgc gcagctaccg gcgccgggag agcaagcgca agaagtcctt 481 cctgctgtgc atcggctggc tggcgctcac cgacctggtc gggcagcttc tcaccacccc 541 ggtcgtcatc gtcgtgtacc tgtccaagca gcgttgggag cacatcgacc cgtcggggcg 601 gctctgcacc tttttcgggc tgaccatgac tgttttcggg ctctcctcgt tgttcatcgc 661 cagegecatg geegtegage gggegetgge cateagggeg eegeactggt atgegageea 721 catgaagacg cgtgccaccc gcgctgtgct gctcggcgtg tggctggccg tgctcgcctt 781 cgccctgctg ccggtgctgg gcgtgggcca gtacaccgtc cagtggcccg ggacgtggtg 841 cttcatcagc accgggcgag ggggcaacgg gactagctct tcgcataact ggggcaacct 901 tttcttcgcc tctgcctttg ccttcctggg gctcttggcg ctgacagtca ccttttcctg 961 caacctggcc accattaagg ccctggtgtc ccgctgccgg gccaaggcca cggcatctca 1021 gtccagtgcc cagtggggcc gcatcacgac cgagacggcc attcagctta tggggatcat 1081 gtgcgtgctg tcggtctgct ggtctccgct cctgataatg atgttgaaaa tgatcttcaa 1141 tcagacatca gttgagcact gcaagacaca cacggagaag cagaaagaat gcaacttctt 1201 cttaatagct gttcgcctgg cttcactgaa ccagatcttg gatccttggg tttacctgct 1261 gttaagaaag atccttcttc gaaagttttg ccaggaggaa ttttggggaa attaaaacct 1321 gcctttctgc caggatcaca tcactggaag ctccatgact ctctttttgt aaaagaaaa (2) INFORMATION FOR SEQ ID NO:2800: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2494 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:2800 1 gtgcgcggag gggacgagcg gctggaccac agccggcgcc cgatcaggat ctccgcgctg 61 ggatcggtgg aacttgaggc agcggcggcg cggggcgcca tggcacaccg agcggctccg 121 tettetgete etcagagage eeggetggeg geetgggatg acaagatgte tggactgeaa 181 tcctgcacag ttttgagagg gagatgactt gagtggttgg cttttatctc cacaacaatg 241 tccatgaaca attccaaaca gctagtgtct cctgcagctg cgcttctttc aaacacaacc 301 tgccagacgg aaaaccggct ttccgtattt ttttcagtaa tcttcatgac agtgggaatc 361 ttgtcaaaca gccttgccat cgccattctc atgaaggcat atcagagatt tagacagaag 421 tccaaggcat cgtttctgct tttggccagc ggcctggtaa tcactgattt ctttggccat 481 ctcatcaatg gagccatagc agtatttgta tatgcttctg ataaagaatg gatccgcttt 541 gaccaatcaa atgtcctttg cagtattttt ggtatctgca tggtgttttc tggtctgtgc 601 ccacttcttc taggcagtgt gatggccatt gagcggtgta ttggagtcac aaaaccaata 661 tttcattcta cgaaaattac atccaaacat gtgaaaatga tgttaagtgg tgtgtgcttg 721 tttgctgttt tcatagcttt gctgcccatc cttggacatc gagactataa aattcaggcg 781 tcgaggacct ggtgtttcta caacacagaa gacatcaaag actgggaaga tagattttat 841 cttctacttt tttctttct ggggctctta gcccttggtg tttcattgtt gtgcaatgca 901 atcacaggaa ttacactttt aagagttaaa tttaaaagtc agcagcacag acaaggcaga 961 tctcatcatt tggaaatggt aatccagctc ctggcgataa tgtgtgtctc ctgtatttgt

1021 tggagcccat ttctggttac aatggccaac attggaataa atggaaatca ttctctggaa 1081 acctgtgaaa caacacttt tgctctccga atggcaacat ggaatcaaat cttagatcct 1141 tgggtatata ttcttctacg aaaggctgtc cttaagaatc tctataagct tgccagtcaa 1201 tgctgtggag tgcatgtcat cagcttacat atttgggagc ttagttccat taaaaattcc 1261 ttaaaggttg ctgctattc tgagtcacca gttgcagaga aatcagcaag cacctagctt 1321 aataggacag taaatctgtg tggggctaga acaaaaatta agacatgttt ggcaatattt 1381 cagttagtta aatacctgta gcctaactgg aaaattcagg cttcatcatg tagtttgaag 1441 atactattgt cagattcagg ttttgaaatt tgtcaaataa acaggataac tgtacattt 1501 caacttgtt ttgccaatgg gaggtagaca caataaaata atgccatggg agtcacactg

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1561 aaagcaattt tgagcttatc tgtcttattt atgctttgag tgaatcatct gttgaggtct
1621 aatgcctcta cttggcctat ttgccagaga acatcttaat gcagcctgca tagtgaaatg
1681 gttattttga gatcaccgct ctgtagctaa cccttataaa ctaggctcag taaaataaag
1741 cactettatt ttttgatetg geetattttg ceceteattg tgtageetea attaacacat
1801 gcatggtcat gacacccaga attcatgatg gtttgttata acaacctctg catattccag
1861 gtctggcaga caggttgcct gaccctgcaa tcctatctag aatgggccca ttcttgtcac
1921 atttgacaaa taggactgcc tacatttatt attatgaagg tcgattgttg ttggaagtgt
1981 tttttcatqt cataqattaq caattttcaa ataattattt tttctctqaa aattttqtqt
2041 gtgattgcac aataaataat ttttagagaa acaaaggctc tttctcagca cattgatggg
2101 caactagaat tacagcagtt tcaaactcta ccatggataa tgcaaacaaa ccgaagctac
2161 atgccaatga taggtgcaaa gaatattggc aaaaggtgct ttaccttgag ccattatttg
2221 tqtcaqaqaa caaaaqaaac aqaatcaata tataaattca aaqactatct qcaqctaqtq
2281 tgtttcttct ttacacacat atacacacag acatcagaaa attctgttga gagcaggttc
2341 attaaatttg taagatggca tattctaaag cctgtgctac cagtactaag aggggaagac
2401 tggcaatttg ccaagcactt ggggattatt ataacaatta actaggagat caagagataa
2461 taatctctcc ccaaattttc caataataat tgag
```

## (2) INFORMATION FOR SEQ ID NO:2801:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1417 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2801
- 1 ggcacagacg cacgggacag gagagcctgg gcaagactgg agagcccaga cctgggatgg 61 cggattcgtg caggaacctc acctacgtgc ggggctcggt ggggccggcc accagcaccc 121 tgatgttcgt ggccggtgtg gtgggcaacg ggctggccct gggcatcctg agcgcacggc 181 gaccggcgcg cccctcggcc ttcgcggtgc tggtcaccgg actggcggcc accgacctgc 241 tgggcaccag cttcctgagc ccggccgtgt tcgtggccta tgcgcgcaac agctccctgc 301 tgggcctggc ccgaggcggc cccgccctgt gcgatgcctt cgccttcgcc atgaccttct 361 teggeetgge gteeatgete atcetetttg ceatggeegt ggagegetge etggegetga 421 gccacccta cctctacgcg cagctggacg ggccccgctg cgcccgcctg gcgctgccag 481 ccatctacge ettetgegte etettetgeg egetgeeeet getgggeetg ggeeaacace 541 agcagtactg ccccggcagc tggtgcttcc tccgcatgcg ctgggcccag ccgggcggcg 601 ccgccttctc gctggcctac gccggcctgg tggccctgct ggtggctgcc atcttcctct 661 gcaacggctc ggtcaccctc agcctctgcc gcatgtaccg ccagcagaag cgccaccagg 721 gctctctggg tccacggcc cgcaccggag aggacgaggt qqaccacctq atcctqctqq 781 ccctcatgac agtggtcatg gccgtgtgct ccctgcctct cacgatccgc tgcttcaccc 841 aggctgtcgc ccctgacagc agcagtgaga tgggggacct ccttgccttc cgcttctacg 901 ccttcaaccc catcctggac ccctgggtct tcatcctttt ccgcaaggct gtcttccagc 961 gactcaagct ctgggtctgc tgcctgtgcc tcgggcctgc ccacggagac tcgcagacac 1021 ccctttccca gctcgcctcc gggaggaggg acccaagggc cccctctgct cctgtgggaa 1081 aggaggggag ctgcgtgcct ttgtcggctt ggggcgaggg gcaggtggag cccttgcctc 1141 ccacacagca gtccagcggc agcgccgtgg gaacgtcgtc caaagcagaa gccagcgtcg 1201 cctgctccct ctgctgacat ttcaagctga ccctgtgatc tctgccctgt cttcgggcga 1261 caggagccag aaaatcaggg acatggctga tggctgcgga tgctggaacc ttggccccca 1321 aactotgggg cogatoagot gotgtttoto tgoggoaggg cagtogotgo tggototggg 1381 aagagagtga gggacagagg aaacgtttat cctggag

#### (2) INFORMATION FOR SEQ ID NO:2802:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 14507 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2802
- 1 gctgtgcaac ctcggcgcca tgcgcaacct ctatgcgatg caccggcggc tgcagcggca 61 cccgcgctcc tgcaccaggg actgtgccga gccgcgcgcg gacgggaggg aagcgtcccc
- 121 teagecectg gaggagetgg ateacetect getgetggeg etgatgaceg tgetetteae 181 tatgtgttet etgecegtaa tttategege ttaetatgga geatttaagg atgteaagga
- 241 gaaaaacagg acctctgaag aagcagaaga cctccgagcc ttgcgatttc tatctgtgat
- 301 ttcaattgtg gacccttgga tttttatcat tttcagatct ccagtatttc ggatattttt
- 361 tcacaagatt ttcattagac ctcttaggta caggagccgg tgcagcaatt ccactaacat

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421 ggaatccagt ctgtgacagt gtttttcact ctgtggtaag ctgaggaata tgtcacattt
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1216 ggccatggca ctggagtgct ggctctccct agggcaccct ttcttctacc gacggcacat
1276 caccetgege etgggegeae tggtggecee ggtggtgage geetteteee tggetttetg
1336 cgcgctacct ttcatgggct tcgggaagtt cgtgcagtac tgccccggca cctggtgctt
1396 tatccagatg gtccacgagg agggctcgct gtcggtgctg gggtactctg tgctctactc
1456 cagcetcatg gegetgetgg teetegeeac egtgetgtge aaceteggeg ecatgegeaa
1516 cctctatgcg atgcaccggc ggctgcagcg gcacccgcgc tcctgcacca gggactgtgc
1576 cgagccgcgc gcggacggga gggaagcgtc ccctcagccc ctggaggagc tggatcacct
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1696 tccccgggcc ccgagg
1712 gggccgccgt cggcgcgctg ggtqcgqqaa qqqqqctctq qatttcqqtc cctcccttt
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 121 gagaggaggg cgcatctctt ttccaggcac cccaccatgg gcaatgcctc caatgactcc
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 301 cgctggcggg gggacgtggg gtgcagcgcc ggccgcagga gctccctctc cttgttccac
 361 gtgctggtga ccgagctggt gttcaccgac ctgctcggga cctgcctcat cagcccagtg
 421 gtactggctt cgtacgcgcg gaaccagacc ctggtggcac tggcgcccga gagccqcgcg
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- (2) INFORMATION FOR SEQ ID NO:2803:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2588 base pairs

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- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

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(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2803 1 gctttctcct agggactgtg aggggcgctt ctgactttgg acttgagcac tgcctgggac 61 ctgtgctgag agagcgctag catgtctcag tggaatcaag tccaacagtt agaaatcaag 121 tttttggagc aggtggatca attctatgat gacaactttc ccatggaaat tcggcatctg 181 ttggcccaat ggattgaaaa tcaagactgg gaggcagctt ctaacaatga aaccatggca 241 acgattette tteaaaactt gttaatacaa etggatgaac agttaggteg tgttteeaaa 301 gagaaaaacc tactcttgat acacaatcta aaaagaatta ggaaggtcct tcagggaaaa 361 tttcatggaa atccaatgca tgtagctgtg gttatttcaa actgtttaag ggaagagagg 421 agaatattgg ctgcagccaa catgcctgtc caggggcctc tagagaaatc cttacaaagt 481 tcttcagttt cagaaagaca gaggaatgtg gagcacaaag tggctgccat taaaaacagt 541 gtgcagatga cagaacaaga taccaaatac ttagaagatc tgcaagacga atttgactac 601 aggtataaaa caattcagac aatggatcag agtgacaaga atagtgccat ggtgaatcag 661 gaagttttga cactgcagga aatgcttaac agcctcgatt tcaagagaaa ggaggctctc 721 agtaaaatga cccaaatcat ccatgagaca gacctgttaa tgaacaccat gctcatagaa 781 gagctgcaag actggaagcg gcggcagcaa atcgcctgca tcgggggtcc actccacaat 841 gggctcgacc agcttcagaa ctgctttaca ctattggcag aaagtctttt ccaactgaga 901 aggcaattgg agaaactaga ggagcaatct accaaaatga catatgaagg tgatcccatt 961 ccaatgcaaa gaactcacat gctagaaaga gtcaccttct tgatctacaa ccttttcaag 1021 aactcatttg tggttgagcg acagccatgt atgccaaccc accctcagag gccgttggta 1081 cttaaaaccc taattcagtt cactgtaaaa ctaaggctac taataaaatt gccagaacta 1141 aactatcagg taaaggttaa ggcatcaatt gacaagaatg tttcaactct aagcaaccga 1201 agatttgtac tttgtggaac taatgtcaaa gccatgtcta ttgaagaatc ttccaatggg 1261 agtctctcag tagaatttcg acatttgcaa ccaaaggaaa tgaagtccag tgctggaggt 1321 aaaggaaatg agggctgtca catggtgact gaagaacttc attccataac gtttgaaaca 1381 cagatetgcc tetatggcct gaccatagat ttggagacca geteattgcc tgtggtgatg 1441 atttccaatg tcagtcagtt acctaatgct tgggcatcca tcatttggta caacgtgtca 1501 accaacgatt cccagaactt ggttttcttt aataatcctc cacctgccac attgagtcaa 1561 ctactggagg tgatgagctg gcagttttca tcgtacgttg gtcgtggtct taactcagat 1621 caactccata tgctggcaga gaagcttaca gtccaatcta gctacagtga tggtcacctc 1681 acctgggcca agttctgcaa ggaacattta cctggtaaat catttacctt ttggacatgg 1741 cttgaagcaa tattggatct aattaagaaa cacattcttc ccctttggat tgatgggtat 1801 gtcatgggct ttgttagcaa agagaaggaa cggctgttgc taaaggataa aatgcctggc 1861 accttttat taagattcag tgaaagccat ctcggaggaa taactttcac ctgggtggac 1921 cattctgaaa gtggggaagt gagattccac tctgtagaac cctacaataa aggccggttg 1981 tctgctctgc cattcgctga catcctgcga gactacaaag ttattatggc tgaaaacatt 2041 cctgaaaacc ctctgaagta cctatatcct gacattccca aagacaaagc cttcggtaaa 2101 cactacaget etcageettg egaagtttea agaceaacag aaaggggtga eaaaggttat 2161 gttccttctg tttttatccc catctcaaca atccgaagtg attcaacaga gccacattct 2221 ccatcagacc ttcttcccat gtctccaagt gtgtatgcgg tgttgagaga aaacctgagt 2281 cccacaacaa ttgaaactgc aatgaagtct ccttattctg ctgaatgaca ggataaactc 2341 tgacgcacca agaaaggaag caaatgaaaa agtttaaaga ctgttctttg cccaataacc 2401 acattttatt tcttcagctt tgtaaatacc aggttctagg aaatgtttga catctgaagc 2461 tctcttcaca ctcccgtggc actcctcaat tgggagtgtt gtgactgaaa tgcttgaaac 2521 caaagcttca gataaacttg caagataaga caactttaag aaaccagtgt taataacaat 2581 attaacag (2) INFORMATION FOR SEO ID NO: 2804: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2588 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2804 1 gctttctcct agggactgtg aggggcgctt ctgactttgg acttgagcac tgcctgggac 61 ctgtgctgag agagcgctag catgtctcag tggaatcaag tccaacagtt agaaatcaag 121 tttttggagc aggtggatca attctatgat gacaactttc ccatggaaat tcggcatctg 181 ttggcccaat ggattgaaaa tcaagactgg gaggcagctt ctaacaatga aaccatggca 241 acgattette tteaaaactt gttaatacaa etggatgaae agttaggteg tgttteeaaa

301 gagaaaaacc tactcttgat acacaatcta aaaagaatta ggaaggtcct tcagggaaaa 361 tttcatggaa atccaatgca tgtagctgtg gttatttcaa actgtttaag ggaagagagg 421 agaatattgg ctgcagccaa catgcctgtc caggggcctc tagagaaatc cttacaaagt

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#### (2) INFORMATION FOR SEQ ID NO:2805:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3046 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2805
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1201 cccttggaga acagcattcc tgggaactgc tgctctgccc tgttcaaqaa cctqcttctc
1261 aagaagatca agcggtgtga gcggaagggc actgagtctg tcacagagga gaagtgcgct
1321 gtgctcttct ctgccagctt cacacttggc cccgqcaaac tccccatcca gctccaggcc
1381 ctgtctctgc ccctggtggt catcgtccat ggcaaccaag acaacaatgc caaagccact
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1561 aaccgggggc tgctcccaqa gcacttcctc ttcctggccc agaagatctt caatgacaac
1621 agcctcagta tggaggcctt ccagcaccgt tctgtgtcct ggtcgcaqtt caacaaggag
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2281 ctctccccag aagaatcagt caacgtgttg tcagccttcc aggagcctca cctgcagatg
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2581 ctcctggagg ggcaagggga gtcgggggga gggtccttgg gggcacagcc cctcctgcag
2641 ccctcccact atgggcaatc tgggatctca atgtcccaca tggacctaag ggccaacccc
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2821 tccccaccta ctcctgggtc aggaggaaaa gactaacagg agaatgcaca gtgggtggag
2881 ccaatccact ccttcctttc tatcattccc ctgcccacct ccttccagca ctgactggaa
2941 gggaagttca ggctctgaga cacgccccaa catgcctgca cctqcaqcqc qcacacqcac
3001 gcacacaca atacagagct ctctgagggt gatggggctg agcagg
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#### (2) INFORMATION FOR SEQ ID NO: 2806:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 8222 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2806
- 1 gctttctcct agggactgtg aggggcgctt ctgactttgg acttgagcac tgcctgggac 61 ctgtgctgag agagcgctag catgtctcag tggaatcaag tccaacagtt agaaatcaag 121 tttttggagc aggtggatca attctatgat gacaactttc ccatggaaat tcggcatctg 181 ttggcccaat ggattgaaaa tcaagactgg gaggcagctt ctaacaatga aaccatggca 241 acgattcttc ttcaaaactt gttaatacaa ctggatgaac agttaggtcg tgtttccaaa 301 gagaaaaacc tactcttgat acacaatcta aaaagaatta ggaaggtcct tcagggaaaa 361 tttcatggaa atccaatgca tgtagctgtg gttatttcaa actgtttaag ggaagagag 421 agaatattgg ctgcagccaa catgcctgtc caggggcctc tagagaaatc cttacaaagt 481 tcttcagttt cagaaagaca gaggaatgtg gagcacaaag tqqctqccat taaaaacagt 541 gtgcagatga cagaacaaga taccaaatac ttagaagatc tqcaagacga atttgactac 601 aggtataaaa caattcagac aatggatcag agtgacaaga atagtgccat ggtgaatcag 661 gaagttttga cactgcagga aatgcttaac agcctcgatt tcaagagaaa qqaqqctctc 721 agtaaaatga cccaaatcat ccatgagaca gacctgttaa tgaacaccat gctcatagaa 781 gagctgcaag actggaagcg gcggcagcaa atcgcctgca tcgggggtcc actccacaat 841 gggctcgacc agcttcagaa ctgctttaca ctattggcag aaagtctttt ccaactgaga 901 aggcaattgg agaaactaga ggagcaatct accaaaatga catatgaagg tgatcccatt 961 ccaatgcaaa gaactcacat gctagaaaga gtcaccttct tgatctacaa ccttttcaag 1021 aactcatttg tggttgagcg acagccatgt atgccaaccc accctcagag gccgttggta 1081 cttaaaaccc taattcagtt cactgtaaaa ctaaggctac taataaaatt gccagaacta 1141 aactatcagg taaaggttaa ggcatcaatt gacaagaatg tttcaactct aagcaaccga 1201 agatttgtac tttgtggaac taatgtcaaa gccatgtcta ttgaagaatc ttccaatggg

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		tcagtcagtt				
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		tgatgagctg				
		tgctggcaga				
		agttctgcaa				
		tattggatct				
		ttgttagcaa				
		taagattcag				
		gtggggaagt				
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2101	cactacaget	ctcagccttg	cgaagtttca	agaccaacag	aaaaaaataa	caaaggttat
2161	atteetteta	tttttatccc	catctcaaca	atccaaaata	attcaacaca	accacattet
		ttcttcccat				
2281	cccacaacaa	ttgaaactgc	aatgaagtet	ccttattctq	ctasatasas	agatasagt
2341	tgacgcacca	agaaaggaag	caaatgaaaa	antttaaana	ctattettta	cccataacc
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		aggtggatca				
		ggattgaaaa				
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961	ccaatgcaaa	gaactcacat	gctagaaaga	gtcaccttct	tgatctacaa	ccttttcaac
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1801	gtcatgggdd	ttgttagcaa	agagaaggaa	caactattac	taaaggataa	aatacctaca
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1921	cattotoaaa	gtggggaagt	gagattccac	tctatageec	cctacaataa	agggggggdC
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2101	cactacaget	ctcagccttg	caaaattta	adaccaacac	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	caaacettat
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2221	ccatcagacc	ttcttcccat	atctccaaca	atatataca~	tattasasas	aaacctcact
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		agaaaggaag				
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5837		ctgctaatgg				
5897		agctagaggc				
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- (2) INFORMATION FOR SEQ ID NO:2807: (i) SEQUENCE CHARACTERISTICS:
  - - (A) LENGTH: 11046 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: single

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEO ID NO:2807 1 tttatttta atttaatcac ttaatttta attttaaga tggagtctca ctctgttgcc 61 caggetgaag tgcaagggtg taateteage teaetgeage etetgeetee eggatteeag 121 tgattttcct gcttcagctt cccaggtagc tgggattgca ggcacatgcc actgtgccca 181 gataattttt tgtatttttt agtagagacg gggcttcacc atgttggcca ggctggtctt 241 gaacteetaa eeteagatga teegeacaee teggeeteee aaagtgetag gattacagge 301 atgageetet gegeetggee tttaetteag ttteaaagag tgaaggteaa gacaetgttt 361 ttttttatgt tttgtttta attttgtttt aaattttttt tgtagagatg ggatcttgct 421 atgttgccca ggctggtctc gaactcctgg cctccagcaa tcctcctgcc tcagcctccc 481 agagtattgg gattacaggt gtgagccatt gtgcttgatc aagatgctgt tatgggctga 541 gttgtgttcc tcaaaaattc tcttgaagtc ctaatctcaa gtacttcagg acgtgacctt 601 attttgaagg acccccttat agggtcttta cagaggtaat taagttaaaa tgaggccatt 661 aggatggggc ctaatgcaat atgactggta teettgaaaa aaggggaaac ttggagaetg 721 acttgcatac aaagagaaca gtgtgtgaac gtgaaaatgg ccaaggaggg aggcctggaa 781 tagageette etteacatee etgagaagga ateaateaat eetgeteagg ttaaeettga 841 tettggaett etageeteea geatettgag agatttetgt tgtttaagte atgeaatatg 901 tagtactttg ttacagcagc cctagcaaac tgatacactc accaaatcga ttttgtgact 961 cactattggg ttgtaaccag cagtacatag acataaagtt atttttcct tacgctttat 1021 cttgtgcaat cgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 1081 agtcttgttc tgtcaccagg ctggagtgca gtggcttgat ctcggctcac tataatcaca 1141 gccttccaga ttcaagtgat ttccctgcct cagcctcctg agtagctggg actacaggcg 1201 cgcaccacca cgcccgacta atttttgta tttttagtag agacggggtt tcaccatgtt 1261 ggccaggatg gtctcaatct cctgaccttg tgatctgcct gcctcagcct cccaaagtgc 1321 tgggattaca ggcgtgagcc tctcttgtgc aatctttacc accactcaat gggatgtcaa 1381 ggtccagggg agggtgatac agtcaccctc acagtcatgc aggtgcagat gtcattaatg 1441 aaggtetgae agaccetgea attgtacaat etgaagatga gtateteett aaattteata 1501 ctctaggcac tttaccctag cctagactct gttgaagtag gtataactat tattctcatt 1561 tgagggattg acacctgatt gtgaacctcc taaatggagt catacccaag ccagatttgc 1621 ctctaaattc tgttttttcc ccttacatca cagtgttccc attggtatag tcagttacag 1681 agggagtaat atatactatt tttctaccag tacttgctcc tcgccttcct accccctaaa 1741 aggagccaaa gtcagagatc acatttactc ttttccctcc tcctctccaa gtctttgggg 1801 acttgtagct ctgacaccct tagatggtga aacctggctt cacctactgt ctgtggatgt 1861 ctgcaggcag agtgggcact caggagcaca tacaaagcac gtgtgccgtg aacacgtatg 1921 tgcacacacc ttgatcctag catggcttgt tggacaagcc aatggacaga gtccctgcct 1981 gccacctcca ccctgctct cccttctctt ccattcactg tcctgcagac acagcaaaca 2041 catacgcaca tacaccctca atatcctttt ggcagtaaca tgacccccaa atctggggac 2101 ttctatgtag gatggagacc cttctccttt cctcatacct ggtttattat gaaccataaa 2161 aatagtgcct gacagttact gtggtgtcagg cattgttcta agccttcaga tgttttactg 2221 cattttattc tcacattatg ggttaagact tatttgctcc attttacaga tgacgagaat 2281 gaatcacaga gtaaattgct cagggttgtg tggttagcag cattagcagg atttgaaccc 2341 aagcagectg tatecacagt ecagtetttt aactgetata ttttgetgtg tteaaaceet 2401 ctgctgcctg gctgggtcca cacacgtgca ctcatgcaca gacctgcggg gtagcaaggg 2461 atggaggagg aggagctggt tctggaaatc aattcaggca ccagggggca gcataggcct 2521 agetttggcc ceteagecca geceetgeta tgggaggag gaggggagta gaaaetteet 2581 cccaccgccc ctcagacacc acctcttcca cacaccgggg ctctcaggtg tccgggagta 2641 aaggeetete tggateeett ggteteetee ageteeteee eeageaaaaa etgeagaace 2701 ctccactagt tatgttgatg actcagaagt tgagcaagac tgtgtgtgtg tgtgtgtgt 2761 tgtgtgtgtg tgtgtgtgt tgtgtgtggt gttgtgattg caatgggctc tgtttgtgag 2821 cctgcctgca cgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtagtcttg tggtcaggga 2881 agttgtgcat gtgtgtgttt gtttcttggc gtgtctcagt gtttacccca gaaacatata 2941 ggaacttggc agataggaac acagcagatt cgtattcaaa cttgcccctt qtgaatctgc 3001 aggcagcagc teeggettgt getggtteec accaeagtet eaggaggggt geeetgtgag 3061 gagagagcaa agaccagett cagtecaagg gacteetaga gtettecaga attetgaget

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    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
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     (A) LENGTH: 666 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
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 481 aacatggtga aaccccgtct ctactaaaaa tacaaaaatt acctgggcat ggtggcgcat
 541 gcctgtattc ccaactactc gggaggctga ggcatgaaaa tcacttgaac ctgggaggca
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 661 tctqtc
(2) INFORMATION FOR SEQ ID NO:2810:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 5424 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2810
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 181 aagatggaat tattataatc cctacttcca tagcctggta aagagcaaat aaatatatgg
 241 aaaggcttga aatagtggct ggcacgtgta agcattagga ttggtcgttg tcattgatgg
 301 agtctcaggt tcggtctgat cctcagcccc tgtgattctg tcgtgagggc actcacagct
 361 cactgootgo octaaacagg otocagotot ggoodtooot oggotoacac otttoocoot
 421 ctcccctag gagatcctgc tgggccgtgg cttcaccttt tggcagtggt ttgatggtgt
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 541 gggtagtttg agcagccata caccagtcac ctccatactc actgcccatg ccccatcctc
 601 teetteatee eggeeagget gateattgge tteateagea aacagtaegt tactageett
 661 cttctcaatg agcccgacgg aacctttctc ctccgcttca gcgactcaga gattgggggc
 721 atcaccattg cccatgtcat ccggggccag gatggtgagg ccaccccagc cagtcctctg
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2461	gtataattac	acaaacctag	atggtataga	ctactataca	ctgaggctat	attototage
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2761	ttttttaaga	tttttctgca	gacaaggtct	cacttactgc	ccaagctggt	ctcaaactcc
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444T	tataattaat	gggaagcagc	Lgaagggacc	ctgggtggga	gcataggagg	agtctggaca
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4681 cacettagtt geatgaceae atagaacatg tgtetatetg ettttgeeta egtgacaaea
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4861 tggetgtgae atetaegtat ggetecaeee etecaatget geetgggage eagggtgaga
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5101 aaataateta etgtacacaa tetgaaaaga aagaegetet aacetgeteag
5221 tgaagggate eecaeeeeee eggeeeetg
5281 ggggatagat gggaatggga gggeaaactg eageaettg taaattaatt aaagaaacaa
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5401 ceaattetgg gggeaaatgt geea
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#### (2) INFORMATION FOR SEQ ID NO:2811:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1475 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2811

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1 gcagcaccta tctgagcagt tagagcgtct ttcttttcag attgtgtaca gtagattatt
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 121 agagggagaa tgggataggg gagtgaaggg aagctggcgg tggatggggc aacagaaaag
 181 atgcagcagg cagggccctc tcatacactg gagggccaca tggccaggcc tggacccaga
 241 ctctcaccct ggctcccagg cagcattgga ggtgtggagc catacgtaga tgtcacagcc
 301 acttggaccc acttgggcac agtcagactc caaattcaga gtatttgggg gttagcatat
 361 gtcagagagg ccagcacact tgctgctgtc ttctgtgcag tgtctcaccc tcccaaattt
 421 gtgttgtcac gtaggcaaaa gcagatagac acatgttcta tgtggtcatg caactaaggt
 481 gccagctata catttaacat atcctaggta catacacgtt cacacagcta tacacgaaga
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 601 acaggaattt ggggctttgg gagatttttt aatcagggca aaacctgtac tagtaaccac
 661 atgtccagac ccctcctatg ctcccaccca gggtcccttg agctgcttcc cattccccta
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#### (2) INFORMATION FOR SEQ ID NO: 2812:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19327 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2812

1 tttatttta atttaatcac ttaatttta attttaaga tggagtctca ctctgttgcc 61 caggctgaag tgcaagggtg taatctcagc tcactgcagc ctctgcctcc cggattccag 121 tgattttct gcttcagctt cccaggtagc tgggattgca ggcacatgcc actgtgccca 181 gataatttt tgtattttt agtagagacg gggcttcacc atgttggcca ggctggtctt 241 gaactcctaa cctcagatga tccgcacacc tcggcctcc aaagtgctag gattacaggc 301 atgagcctct gcgcctggcc tttacttcag tttcaaagag tgaaggtcaa gacactgttt 361 tttttatgt tttgtttta attttgttt aaatttttt tgtagagatg ggatcttgct

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		ctgacaccct				
		agtgggcact				
		ttgatcctag				
		cccctgctct				
		tacaccctca				_
		gatggagacc				
		gacagttact				-
		tcacattatg				
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2641	aaggcctctc	tggatccctt	ggtctcctcc	agctcctccc	ccagcaaaaa	ctgcagaacc
2701	ctccactagt	tatgttgatg	actcagaagt	tgagcaagac	tgtgtgtgtg	tgtgtgtgtg
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		agaccagctt				
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		attggaggga				
		gtagagcata				
7001	adatacttca	aggagagaaa	aaagctgtta	tggaacaggt	artgtgatat	tccacctccc
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17917 17977 18033 18093 18153 18213 18273 18393 18453 18513 18573 18633 18693 18753	gcagcaccta tattttgtta agagggagaa atgcagcagg ctctcaccct acttggaccc gtcagagagg gtgttgtcac gccagctata atctcagcc acaggaattt atgtccagac gggctgagac gcctatccgt	tctgagcagt ttttggaata tgggataggg cagggcctc ggctcccagg acttgggcac ccagcacact gtaggcaaaa catttaacat ttgtacttt ggggctttgg ccctcctatg ccaatatcct cctaggccct cagccccct gtgtgcgcg	tagagcgtct aaatttattt gagtgaaggg tcatacactg cagcattgga agtcagactc tgctgctgtc gcagatagac atcctaggta gcatagtctc gagattttt ctcccaccca ctatccctgg gggtcagaat cctgctcagc tgcaggtgca	tatggcttag aagctggcgg gagggccaca ggtgtggagc caaattcaga ttctgtgcag acatgttcta catacacgtt atacacgtat aatcagggca gggtcccttg cctctagtgt gggcggagaa cccatcaccc ggcatgttgg	gatctatgac tggatggggc tggccaggcc catacgtaga gtatttgggg tgtctcaccc tgtggtcatg cacacagcta cagaagcctc aaacctgtac agctgcttcc aaatgtgtct gccttccatg tcagagagct ggtgtgtctc	ccctgccttg aacagaaaag tggacccaga tgtcacagcc gttagcatat tcccaaattt caactaaggt tacacgaaga cacctggcta tagtaaccac cattccccta gtatgttcct ccctaacctg ctgtatgtgt agagcctgaa

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18873 gattggetce acceactgtg cattetectg ttagtettt cetectgace caggagtagg
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19113 ggagggetge aggaggget gtgeeeecaa ggaeeeteee eetgeeeete
19173 eaggagaage ttagtgaggt eetgtteagt ggagageage agaggaggga atatgtette
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19293 tgeeaeeeag eeteeaetee caagetgeea eteae
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## (2) INFORMATION FOR SEQ ID NO:2813:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3567 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2813

1 cgccatcccg cgctctgcgg actgggaggc ccgggccagg acgcgagtct gcgcagccga 61 ggttccccag cgcccctgc agccgcgcgt aggcagagac ggagcccggc cctgcgcctc 121 cgcaccacgc ccgggacccc acccagcggc ccgtacccgg agaagcagcg cgagcacccg 181 aagctcccgg ctcggcggca gaaaccggga gtggggccgg gcgagtgcgc ggcatcccag 241 geeggeecga acgteegeec geggtgggee gaetteecet cetetteeet eteteettee 301 tttagcccgc tggcgccgga cacgctgcgc ctcatctctt ggggcgttct tccccgttgg 361 ccaaccgtcg catcccgtgc aactttgggg tagtggccgc ttagtgttga atgttcccca 421 ccgagagcgc atggcttggg aagcgaggcg cgaacccggg ccccgaagcc gccgtccggg 481 agacggtgat gctgttgctg tgcctggggg tcccgaccgg ccgcccctac aacgtggaca 541 ctgagagcgc gctgctttac cagggccccc acaacacgct gttcggctac tcggtcgtgc 601 tgcacagcca cggggcgaac cgatggctcc tagtgggtgc gcccactgcc aactggctcg 661 ccaacgcttc agtgatcaat cccggggcga tttacagatg caggatcgga aagaatcccg 721 gccagacgtg cgaacagctc cagctgggta gccctaatgg agaaccttgt ggaaagactt 781 gtttggaaga gagagacaat cagtggttgg gggtcacact ttccagacag ccaggagaaa 841 atggatccat cgtgacttgt gggcatagat ggaaaaatat attttacata aagaatgaaa 901 ataagctccc cactggtggt tgctatggag tgccccctga tttacgaaca gaactgagta 961 aaagaatagc tccgtgttat caagattatg tgaaaaaatt tggagaaaat tttgcatcat 1021 gtcaagctgg aatatccagt ttttacacaa aggatttaat tgtgatgggg gccccaggat 1081 catcttactg gactggctct ctttttgtct acaatataac tacaaataaa tacaaggctt 1141 ttttagacaa acaaaatcaa gtaaaatttg gaagttattt aggatattca gtcggagctg 1201 gtcattttcg gagccagcat actaccgaag tagtcggagg agctcctcaa catgagcaga 1261 ttggtaaggc atatatattc agcattgatg aaaaagaact aaatatctta catgaaatga 1321 aaggtaaaaa gcttggatcg tactttggag cttctgtctg tgctgtggac ctcaatgcag 1381 atggcttctc agatctgctc gtgggagcac ccatgcagag caccatcaga gaggaaggaa 1441 gagtgtttgt gtacatcaac tctggctcgg gagcagtaat gaatgcaatg gaaacaaacc 1501 tcgttggaag tgacaaatat gctgcaagat ttggggaatc tatagttaat cttggcgaca 1561 ttgacaatga tggctttgaa gatgttgcta tcggagctcc acaagaagat gacttgcaag 1621 gtgctattta tatttacaat ggccgtgcag atgggatctc gtcaaccttc tcacagagaa 1681 ttgaaggact tcagatcagc aaatcgttaa gtatgtttgg acagtctata tcaggacaaa 1741 ttgatgcaga taataatggc tatgtagatg tagcagttgg tgcttttcgg tctgattctg 1801 ctgtcttgct aaggacaaga cctgtagtaa ttgttgacgc ttctttaagc caccctgagt 1861 cagtaaatag aacgaaattt gactgtgttg aaaatggatg gccttctgtg tgcatagatc 1921 taacactttg tttctcatat aagggcaagg aagttccagg ttacattgtt ttgttttata 1981 acatgagttt ggatgtgaac agaaaggcag agtctccacc aagattctat ttctcttcta 2041 atggaacttc tgacgtgatt acaggaagca tacaggtgtc cagcagagaa gctaactgta 2101 gaacacatca agcatttatg cggaaagatg tgcgggacat cctcacccca attcagattg 2161 aagctgctta ccaccttggt cctcatgtca tcagtaaacg aagtacagag gaattcccac 2221 cacttcagcc aattcttcag cagaagaaag aaaaagacat aatgaaaaaa acaataaact 2281 ttgcaaggtt ttgtgcccat gaaaattgtt ctgctgattt acaggtttct gcaaagattg 2341 ggtttttgaa gccccatgaa aataaaacat atcttgctgt tgggagtatg aagacattga 2401 tgttgaatgt gtccttgttt aatgctggag atgatgcata tgaaacgact ctacatgtca 2461 aactacccgt gggtctttat ttcattaaga ttttagagct ggaagagaag caaataaact 2521 gtgaagtcac agataactct ggcgtggtac aacttgactg cagtattggc tatatatatg 2581 tagatcatct ctcaaggata gatattagct ttctcctgga tgtgagctca ctcagcagag 2641 cggaagagga cctcagtatc acagtgcatg ctacctgtga aaatgaagag gaaatggaca 2701 atctaaagca cagcagagtg actgtagcaa tacctttaaa atatgaggtt aagctgactg

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2761 ttcatgggtt tgtaaacca acttcatttg tgtatggatc aaatgatgaa aatgagcctg 2821 aaacgtgcat ggtggagaaa atgaacttaa ctttccatgt tatcaacact ggcaatagta 2881 tggctcccaa tgttagtgtg gaaataatgg taccaaattc ttttagcccc caaactgata 2941 agctgttcaa cattttggat gtccagacta ctactggaga atgccacttt gaaaattatc 3001 aaagagtgtg tgcattagag cagcaaaaga gtgcaatgca gaccttgaaa ggcatagtcc 3061 agttcttgtc caagactgat aagaggctat tgtactgcat aaaaggctgat ccacattgtt 3121 taaatttctt gtgtaatttt gggaaaatgg aaagtggaaa agaaggccagt gtcatatcc 3181 aactggaagg ccggccatcc atttagaaa tggatgagac ttcagcactc aagtttgaa 3241 taagagcaa aggttttca gaaggactac caagagtaat tgaactaaac aaggatgaga 3301 atgttgcgca tgttctactg gaaggactac atcatcaaag acccaaacgt tattcacca 3361 tagtgattat ttcaagtagc ttgtaacttg gacttattgt acttctgttg atctcatatg 3421 ttatgtggaa ggctggcttc tttaaaagac aatacaaatc tatcctacaa gaagaaaca 3481 gaagagaaa tggaaaacag cccgccc
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# (2) INFORMATION FOR SEQ ID NO:2814:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3805 base pairs
  - (B) TYPE: nucleic acid(C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2814

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1 gaattccggg ccgcttagtg ttgaatgttc cccaccgaga gcgcatggct tgggaagcga
 61 ggcgcgaacc cgggccccga agccgccgtc cgggagacgg tgatgctgtt gctgtgcctg
121 ggggtcccga ccggccgccc ctacaacgtg gacactgaga gcgcgctgct ttaccagggc
181 ccccacaaca cgctgttcgg ctactcggtc gtgctgcaca gccacggggc gaaccgatgg
241 ctcctagtgg gtgcgcccac tgccaactgg ctcgccaacg cttcagtgat caatcccggg
301 gcgatttaca gatgcaggat cggaaagaat cccggccaga cgtgcgaaca gctccagctg
361 ggtagcccta atggagaacc ttgtggaaag acttgtttgg aagagagag caatcagtgg
421 ttgggggtca cactttccag acagccagga gaaaatggat ccatcgtgac ttgtgggcat
481 agatggaaaa atatattta cataaagaat gaaaataagc tccccactgg tggttgctat
541 ggagtgcccc ctgatttacg aacagaactg agtaaaagaa tagctccgtg ttatcaagat
601 tatgtgaaaa aatttggaga aaattttgca tcatgtcaag ctggaatatc cagtttttac
721 gtctacaata taactacaaa taaatacaag gcttttttag acaaacaaaa tcaagtaaaa
781 tttggaagtt atttaggata ttcagtcgga gctggtcatt ttcggagcca gcatactacc
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3361 gcttttaaat gggtagagaa acactaaagc attcaattta ttcaagaaaa gtaagccctt
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3661 ttataataca tttcctacgg gctgtgttcc aacaaccatt ttttttcagc agactatgaa
3721 tattatagta ttataggcca aactggcaaa cttcagactg aacatgtaca ctggtttgag
3781 cttagtgaaa tgacttccgg aatct
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# (2) INFORMATION FOR SEQ ID NO:2815:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 7372 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2815

1 cgccatcccg cgctctgcgg actgggaggc ccgggccagg acgcgagtct gcgcagccga 61 ggttccccag cgcccctgc agccgcgcgt aggcagagac ggagcccggc cctgcgcctc 121 cgcaccacgc ccgggacccc acccagcggc ccgtacccgg agaagcagcg cgagcacccg 181 aageteeegg eteggeggea gaaaceggga gtggggeegg gegagtgege ggeateeeag 241 geoggeoega acgtecgeoe geggtgggee gaetteeeet eetetteet eteteettee 301 tttagcccgc tggcgccgga cacgctgcgc ctcatctctt gggggcgttct tccccgttgg 361 ccaaccgtcg catcccgtgc aactttgggg tagtggccgc ttagtgttga atgttcccca 421 ccgagagcgc atggcttggg aagcgaggcg cgaacccggg ccccgaagcc gccgtccggg 481 agacggtgat gctgttgctg tgcctggggg tcccgaccgg ccgcccctac aacgtggaca 541 ctgagagege getgetttae cagggeecee acaacaeget gtteggetae teggtegtge 601 tgcacagcca cggggcgaac cgatggctcc tagtgggtgc gcccactgcc aactggctcg 661 ccaacgcttc agtgatcaat cccggggcga tttacagatg caggatcgga aagaatcccg 721 gccagacgtg cgaacagctc cagctgggta gccctaatgg agaaccttgt ggaaagactt 781 gtttggaaga gagagacaat cagtggttgg gggtcacact ttccagacag ccaggagaaa 841 atggatccat cgtgacttgt gggcatagat ggaaaaatat attttacata aagaatgaaa 901 ataageteee cactggtggt tgetatggag tgeeecetga tttacgaaca gaactgagta 961 aaagaatagc tccgtgttat caagattatg tgaaaaaatt tggagaaaat tttgcatcat 1021 gtcaagctgg aatatccagt ttttacacaa aggatttaat tgtgatgggg gccccaggat 1081 catcttactg gactggctct ctttttgtct acaatataac tacaaataaa tacaaggctt 1141 ttttagacaa acaaaatcaa gtaaaatttg gaagttattt aggatattca gtcggagctg 1201 gtcattttcg gagccagcat actaccgaag tagtcggagg agctcctcaa catgagcaga 1261 ttggtaaggc atatatattc agcattgatg aaaaagaact aaatatctta catgaaatga 1321 aaggtaaaaa gcttggatcg tactttggag cttctgtctg tgctgtggac ctcaatgcag 1381 atggcttctc agatctgctc gtgggagcac ccatgcagag caccatcaga gaggaaggaa 1441 gagtgtttgt gtacatcaac tctggctcgg gagcagtaat gaatgcaatg gaaacaaacc 1501 tcgttggaag tgacaaatat gctgcaagat ttggggaatc tatagttaat cttggcgaca 1561 ttgacaatga tggctttgaa gatgttgcta tcggagctcc acaagaagat gacttgcaag 1621 gtgctattta tatttacaat ggccgtgcag atgggatctc gtcaaccttc tcacagagaa 1681 ttgaaggact tcagatcagc aaatcgttaa gtatgtttgg acagtctata tcaggacaaa 1741 ttgatgcaga taataatggc tatgtagatg tagcagttgg tgcttttcgg tctgattctg

403254.1 901 73999/01905

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2701 atctaaagca cagcagagtg actgtagcaa tacctttaaa atatgaggtt aagctgactg
2761 ttcatgggtt tgtaaaccca acttcatttg tgtatggatc aaatgatgaa aatgagcctg
2821 aaacqtqcat gqtqqaqaaa atqaacttaa ctttccatgt tatcaacact gqcaatagta
2881 tggctcccaa tgttagtgtg gaaataatgg taccaaattc ttttagcccc caaactgata
2941 agctgttcaa cattttggat gtccagacta ctactggaga atgccacttt gaaaattatc
3001 aaagagtgtg tgcattagag cagcaaaaga gtgcaatgca gaccttgaaa ggcatagtcc
3061 agttcttgtc caagactgat aagaggctat tgtactgcat aaaagctgat ccacattgtt
3121 taaatttctt gtgtaatttt gggaaaatgg aaagtggaaa agaagccagt gttcatatcc
3181 aactggaagg ccggccatcc attttagaaa tggatgagac ttcagcactc aagtttgaaa
3241 taagagcaac aggttttcca gagccaaatc caagagtaat tgaactaaac aaggatgaga
3301 atgttgcgca tgttctactg gaaggactac atcatcaaag acccaaacgt tatttcacca
3361 tagtgattat ttcaagtagc ttgctacttg gacttattgt acttctgttg atctcatatg
3421 ttatgtggaa ggctggcttc tttaaaagac aatacaaatc tatcctacaa gaagaaaaca
3481 gaagagacag ttggagttat atcaacagta aaagcaatga tgattaagga cttctttcaa
3541 attgagagaa tggaaaacag cccgccc
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1 gaattccggg ccgcttagtg ttgaatgttc cccaccgaga gcgcatggct tgggaagcga 61 ggcgcgaacc cgggccccga agccgccgtc cgggagacgg tgatgctgtt gctgtgcctg 121 ggggtcccga ccggccgccc ctacaacgtg gacactgaga gcgcgctgct ttaccagggc 181 ccccacaaca cgctgttcgg ctactcggtc gtgctgcaca gccacggggc gaaccgatgg 241 ctcctagtgg gtgcgcccac tgccaactgg ctcgccaacg cttcagtgat caatcccggg 301 gcgatttaca gatgcaggat cggaaagaat cccggccaga cgtgcgaaca gctccagctg 361 ggtagcccta atggagaacc ttgtggaaag acttgtttgg aagagagag caatcagtgg 421 ttgggggtca cactttccag acagccagga gaaaatggat ccatcgtgac ttgtgggcat 481 agatggaaaa atatattta cataaagaat gaaaataagc tccccactgg tggttgctat 541 ggagtgcccc ctgatttacg aacagaactg agtaaaagaa tagctccgtg ttatcaagat 601 tatgtgaaaa aatttggaga aaattttgca tcatgtcaag ctggaatatc cagtttttac 721 gtctacaata taactacaaa taaatacaag gcttttttag acaaacaaaa tcaagtaaaa 781 tttggaagtt atttaggata ttcagtcgga gctggtcatt ttcggagcca gcatactacc 841 gaagtagtcg gaggagctcc tcaacatgag cagattggta aggcatatat attcagcatt 901 gatgaaaaag aactaaatat cttacatgaa atgaaaggta aaaagcttgg atcgtacttt 961 ggagcttctg tctgtgctgt ggacctcaat gcagatggct tctcagatct gctcgtggga 1021 gcacccatgc agagcaccat cagagaggaa ggaagagtgt ttgtgtacat caactctggc 1081 tcgggagcag taatgaatgc aatggaaaca aacctcgttg gaagtgacaa atatgctgca 1141 agatttgggg aatctatagt taatcttggc gacattgaca atgatggctt tgaagatgtt 1201 gctatcggag ctccacaaga agatgacttg caaggtgcta tttatattta caatggccgt 1261 gcagatggga tctcgtcaac cttctcacag agaattgaag gacttcagat cagcaaatcg 1321 ttaagtatgt ttggacagtc tatatcagga caaattgatg cagataataa tggctatgta 1381 gatgtagcag ttggtgcttt tcggtctgat tctgctgtct tgctaaggac aagacctgta 1441 gtaattgttg acgcttcttt aagccaccct gagtcagtaa atagaacgaa atttgactgt 1501 gttgaaaatg gatggccttc tgtgtgcata gatctaacac tttgtttctc atataagggc 1561 aaggaagttc caggttacat tgttttgttt tataacatga gtttggatgt gaacagaaag 1621 gcagagtctc caccaagatt ctattctct tctaatggaa cttctgacgt gattacagga 1681 agcatacagg tgtccagcag agaagctaac tgtagaacac atcaagcatt tatgcggaaa 1741 gatgtgcggg acatcctcac cccaattcag attgaagctg cttaccacct tggtcctcat 1801 gtcatcagta aacgaagtac agaggaattc ccaccacttc agccaattct tcagcagaag 1861 aaagaaaaag acataatgaa aaaaacaata aactttgcaa ggttttgtgc ccatgaaaat

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1921 tgttctgctg atttacaggt ttctgcaaag attgggtttt tgaagcccca tgaaaataaa
1981 acatatcttg ctgttgggag tatgaagaca ttgatgttga atgtgtcctt gtttaatgct
2041 ggagatgatg catatgaaac gactctacat gtcaaactac ccgtgggtct ttatttcatt
2101 aagattttag agctggaaga gaagcaaata aactgtgaag tcacagataa ctctggcgtg
2161 gtacaacttg actgcagtat tggctatata tatgtagatc atctctcaag gatagatatt
2221 agetttetee tggatgtgag eteacteage agageggaag aggaceteag tateacagtg
2281 catgctacct gtgaaaatga agaggaaatg gacaatctaa agcacagcag agtgactgta
2341 gcaatacctt taaaatatga ggttaagctg actgttcatg ggtttgtaaa cccaacttca
2401 tttgtgtatg gatcaaatga tgaaaatgag cctgaaacgt gcatggtgga gaaaatgaac
2461 ttaactttcc atgttatcaa cactggcaat agtatggctc ccaatgttag tgtggaaata
2521 atggtaccaa attcttttag cccccaaact gataagctgt tcaacatttt ggatgtccag
2581 actactactg gagaatgcca ctttgaaaat tatcaaagag tgtgtgcatt agagcagcaa
2641 aagagtgcaa tgcagacctt gaaaggcata gtccggttct tgtccaagac tgataagagg
2701 ctattgtact gcataaaagc tgatccacat tgtttaaatt tcttgtgtaa ttttgggaaa
2761 atggaaagtg gaaaagaagc cagtgttcat atccaactgg aaggccggcc atccatttta
2821 gaaatggatg agacttcagc actcaagttt gaaataagag caacaggttt tccagagcca
2881 aatccaagag taattgaact aaacaaggat gagaatgttg cgcatgttct actggaagga
2941 ctacatcatc aaagacccaa acgttatttc accatagtga ttatttcaag tagcttgcta
3061 agacaataca aatctatcct acaagaagaa aacagaagag acagttggag ttatatcaac
3121 agtaaaagca atgatgatta aggacttctt tcaaattgag agaatggaaa acagactcag
3181 gttgtagtaa agaaatttaa aagacactgt ttacaagaaa aaatgaattt tgtttggact
3241 tcttttactc atgatcttgt gacatattat gtcttcatgc aaggggaaaa tctcagcaat
3301 gattactctt tgagatagaa gaactgcaaa ggtaataata cagccaaaga taatctctca
3361 gcttttaaat gggtagagaa acactaaagc attcaattta ttcaagaaaa gtaagccctt
3421 gaagatatct tgaaatgaaa gtataactga gttaaattat actggagaag tcttagactt
3481 gaaatactac ttaccatatg tgcttgcctc agtaaaatga accccactgg gtgggcagag
3541 gttcatttca aatacatctt tgatacttgt tcaaaaatatg ttctttaaaa atataatttt
3601 ttagagagct gttcccaaat tttctaacga gtggaccatt atcactttaa agccctttat
3661 ttataataca tttcctacgg gctgtgttcc aacaaccatt ttttttcagc agactatgaa
3721 tattatagta ttataggcca aactggcaaa cttcagactg aacatgtaca ctggtttgag
3781 cttagtgaaa tgacttccgg aatct
```

### (2) INFORMATION FOR SEQ ID NO: 2816:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1108 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2816:
- 1 cagctgtccc tccccactgc catttattcc ttccttcatt caaaccttat gtggctgcta 61 cttaccgtgt gttaagtgtt cactttttt cttggaattc aaaaaaagaa ggacagtatt 121 tggggcacag atcttttggt gttctataca tttttttaaa gtttcatttt acatttgtgt 181 gtgcgtgtgt gtgtgtgtg gagacagtct tgctctgttg cccaggctgg agtgcagtgg 241 cataatcatt ggctcactgt agcctcaaag tcctgggccc aagcgatctt cccacctcag 301 ccacccaaaa tgctggggtt acaggtttat gccactctgt ctgacctgaa agttttgggt 361 ttactttccc ttctttctct ttgctgaagt cagagatgat ggcagcttcc agattctctg 421 gtgcctgtgc tgggctcgtg ctggtcatgg tcttgggtcc aggattcatt ctggagactc 481 tcagggaagt ttcccatgac aaggaaatgt aggagagtgt gctggctttg cgtgctcctc 541 tgccaagccc tgcttctcct ggtgggacac actgaaccac agccagggca ttttggtggt 601 tagttaaaaa aaaaaaaaaa aaaaaaaagg aagaagaagg cactgtgtaa ttgtgccggg 661 gatcttcaga aattgtaatg atgaaagagt gcaagctctc acttcccctt cctgtacagg 721 gcaggttgtg cagctggagg cagagcagtc ctctctgggg agcctgaagc aaacatggat 781 caagaaactg taggcaatgt tgtcctgttg gccatcgtca ccctcatcag cgtggtccag 841 aatggtaagg aaagcccttc actcagggaa gaacagaagg ggagattttc tttgatggtt 901 gtttggaagt caggcttaaa caattgtgtc tgtgtgtgcg catgcacaaa cacttttacc 961 ttatctttat tttcttcttt ttatttgaat gtatagggtt gtgtgtattt ctgtgtaaat 1021 ttggggtttt cctcctctta gtctttcact tttgtggtga ttaccagtcc catttttaga 1081 gccagggctg caacttgaag gttttgct
- (2) INFORMATION FOR SEQ ID NO:2817:
  - (i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 540 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(xi)SEQUENCE DESCRIPTION: SEQ ID NO:2817:
1 tgcgttttgg gggttcctgg agtatcaatc atggatcaag aaactgtagg caatgttgtc
61 ctgttggcca tcgtcaccct catcagcgtg gtccagaatg gattctttgc ccataaagtg
121 gagcacgaaa gcaggaccca gaatgggagg agcttccaga ggaccggaac acttgcctt
181 gagcgggtct acactgccaa ccagaactgt gtagatgcgt accccacttt cctcgctgtg
241 ctctggtctg cggggctact ttgcagccaa gttcctgctg cgtttgctgg actgatgtac
301 ttgtttgtgc ggcaaaagta ctttgtcggt tacctaggag agagaacgca gagcaccct
361 ggctacatat ttgggaaacg catcatactc ttcctgttcc tcatgtccgt tgctggcata
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- (2) INFORMATION FOR SEQ ID NO:2818:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2022 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2818:

```
1 atgccctcct acacggtcac cgtggccact ggcagccagt ggttcgccgg cactgacgac
 61 tacatctacc tcagcctcgt gggctcggcg ggctgcagcg agaagcacct gctggacaag
121 cccttctaca acgacttcga gcgtggcgcg gtggattcat acgacgtgac tgtggacgag
181 gaactgggcg agatccagct ggtcagaatc gagaagcgca agtactggct gaatgacgac
241 tggtacctga agtacatcac gctgaagacg ccccacgggg actacatcga gttcccctgc
301 taccgctgga tcaccggcga tgtcgaggtt gtcctgaggg atggacgcgc aaagttggcc
361 cgagatgacc aaattcacat tctcaagcaa caccgacgta aagaactgga aacacggcaa
421 aaacaatatc gatggatgga gtggaaccct ggcttcccct tgagcatcga tgccaaatgc
481 cacaaggatt taccccgtga tatccagttt gatagtgaaa aaggagtgga ctttgttctg
541 aattactcca aagcgatgga gaacctgttc atcaaccgct tcatgcacat gttccagtct
601 tcttggaatg acttcgccga ctttgagaaa atctttgtca agatcagcaa cactatttct
661 gagcgggtca tgaatcactg gcaggaagac ctgatgtttg gctaccagtt cctgaatggc
721 tgcaaccctg tgttgatccg gcgctgcaca gagctgcccg agaagctccc ggtgaccacg
781 gagatggtag agtgcagcct ggagcggcag ctcagcttgg agcaggaggt ccagcaaggg
841 aacattttca tcgtggactt tgagctgctg gatggcatcg atgccaacaa aacagacccc
901 tgcacactcc agttcctggc cgctcccatc tgcttgctgt ataagaacct ggccaacaag
961 attgtcccca ttgccatcca gctcaaccaa atcccgggag atgagaaccc tattttcctc
1021 ccttcggatg caaaatacga ctggcttttg gccaaaatct gggtgcgttc cagtgacttc
1081 cacgtccacc agaccatcac ccaccttctg cgaacacatc tggtgtctga ggtttttggc
1141 attgcaatgt accgccagct gcctgctgtg caccccattt tcaagctgct ggtggcacac
1201 gtgagattca ccattgcaat caacaccaag gcccgtgagc agctcatctg cgagtgtggc
1261 ctctttgaca aggccaacgc cacagggggc ggtgggcacg tgcagatggt gcagagggcc
1321 atgaaggacc tgacctatgc ctccctgtgc tttcccgagg ccatcaaggc ccggggcatg
1381 gagagcaaag aagacatccc ctactacttc taccgggacg acgggctcct ggtgtgggaa
1441 gccatcagga cgttcacggc cgaggtggta gacatctact acgagggcga ccaggtggtg
1501 gaggaggacc cggagctgca ggacttcgtg aacgatgtct acgtgtacgg catgcggggc
1561 cgcaagtcct caggcttccc caagtcggtc aagagccggg agcagctgtc ggagtacctg
1621 accgtggtga tcttcaccgc ctccgcccag cacgccgcgg tcaacttcgg ccagtacgac
1681 tggtgctcct ggatccccaa tgcgccccca accatgcgag ccccgccacc gactgccaag
1741 ggcgtggtga ccattgagca gatcgtggac acgctgcccg accgcggccg ctcctgctgg
1801 catctgggtg cagtgtgggc gctgagccag ttccaggaaa acgagctgtt cctgggcatg
1861 tacccagaag agcattttat cgagaagcct gtgaaggaag ccatggcccg attccgcaag
1921 aacctcgagg ccattgtcag cgtgattgct gagcgcaaca agaagaagca gctgccatat
1981 tactacttgt ccccagaccg gattccgaac agtgtggcca tc
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421 ttcaactatt acctcatctt ctttttcgga agtgactttg aaaactacat aaagacgatc 481 tccaccacca tctcccctct acttctcatt tcctaactct ctgctgaata tggggttggt

- (2) INFORMATION FOR SEQ ID NO:2819:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2500 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2819:
  1 gggcccggcg ctcgctgctc ccgcggcccg cgccatgccc tcctacacgg tcaccgtggc
  61 cactggcage cagtggtteg ceggcaetga egactacate taceteagee tegtgggete
 121 ggcgggctgc agcgagaagc acctgctgga caagcccttc tacaacgact tcgagcgtgg
 181 cgcggtggat tcatacgacg tgactgtgga cgaggaactg ggcgagatcc agctggtcag
 241 aatcqaqaaq cqcaaqtact gqctqaatga cqactggtac ctgaagtaca tcacgctgaa
 301 gacgcccac ggggactaca tcgagttccc ctgctaccgc tggatcaccg gcgatgtcga
 361 ggttgtcctg agggatggac gcgcaaagtt ggcccgagat gaccaaattc acattctcaa
 421 qcaacaccga ctgaaagaac tggaaacacg gcaaaaacaa tatcgatgga tggagtggaa
 481 ccctqqcttc cccttqaqca tcqatqccaa atqccacaag gatttacccc gtgatatcca
 541 gtttgatagt gaaaaaggag tggactttgt tctgaattac tccaaagcga tggagaacct
 601 gttcatcaac cgcttcatgc acatgttcca gtcttcttgg aatgacttcg ccgactttga
 661 gaaaatcttt gtcaagatca gcaacactat ttctgagcgg gtcatgaatc actggcagga
721 agacctgatg tttggctacc agttcctgaa tggctgcaac cctgtgttga tccggcgctg
781 cacagagety eccegagaage teceggtgae caeggagaty gtagagtgea geetggageg
 841 gcagctcagc ttggagcagg aggtccagca agggaacatt ttcatcgtgg actttgagct
 901 gctggatggc atcgatgcca acaaaacaga cccctgcaca ctccagttcc tggccgctcc
 961 catctgcttg ctgtataaga acctggccaa caagattgtc cccattgcca tccagctcaa
1021 ccaaatcccg ggagatgaga accctatttt cctcccttcg gatgcaaaat acgactggct
1081 tttggccaaa atctgggtgc gttccagtga cttccacgtc caccagacca tcacccacct
1141 tctgcgaaca catctggtgt ctgaggtttt tggcattgca atgtaccgcc agctgcctgc
1201 tgtgcacccc attttcaagc tgctggtggc acacgtgaga ttcaccattg caatcaacac
1261 caaggeeegt gageagetea tetgegagtg tggeetettt gacaaggeea acgeeacagg
1381 qtqctttccc gaggccatca aggcccgggg catggagagc aaagaagaca tcccctacta
1441 cttctaccgg gacgacgggc tcctggtgtg ggaagccatc aggacgttca cggccgaggt
1501 ggtagacatc tactacgagg gcgaccaggt ggtggaggag gacccggagc tgcaggactt
1561 cgtgaacgat gtctacgtgt acggcatgcg gggccgcaag tcctcaggct tccccaagtc
1621 ggtcaagagc cgggagcagc tgtcggagta cctgaccgtg gtgatcttca ccgcctccgc
1681 ccagcacgcc gcggtcaact tcggccagta cgactggtgc tcctggatcc ccaatgcgcc
1741 cccaaccatg cgagcccgc caccgactgc caagggcgtg gtgaccattg agcagatcgt
1801 ggacacgctg cccgaccgcg gccgctcctg ctggcatctg ggtgcagtgt gggcgctgag
1861 ccagttccag gaaaacgagc tgttcctggg catgtaccca gaagagcatt ttatcgagaa
1921 gcctgtgaag gaagccatgg cccgattccg caagaacctc gaggccattg tcagcgtgat
1981 tgctgagcgc aacaagaaga agcagctgcc atattactac ttgtccccag accggattcc
2041 qaacagtgtg gccatctgag cacactgcca gtctcactgt gggaaggcca gctgccccag
2101 ccaqatqqac tccaqcctqc ctqqcaqqtq tctqqccaqg cctcttqqca gtcacatctc
2161 ttcctccgag gccagtacct ttccatttat tctttgatct tcagggaact gcatagattg
2221 atcaaagtgt aaacaccata gggacccatt ctacacagag caggactgca cagcgtcctg
2281 tccacaccca gctcagcatt tccacaccaa gcagcaacag caaatcacga ccactgatag
2341 atgtctattc ttgttggaga catgggatga ttattttctg ttctatttgt gcttagtcca
2401 attecttgca catagtaggt acceaattca attactattg aatgaattaa gaattggttg
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# (2) INFORMATION FOR SEQ ID NO:2820:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2484 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2820:
- 1 gggcccggcg ctcgctgctc ccgcggcccg cgccatgccc tcctacacgg tcaccgtggc
  61 cactggcagc cagtggttcg ccggcactga cgactacatc tacctcagcc tcgtgggctc
  121 ggcgggctgc agcgagaagc acctgctgga caagcccttc tacaacgact tcgagcgtgg
  181 cgcggtggat tcatacgacg tgactgtgga cgaggaactg ggcgagatcc agctggtcag
  241 aatcgagaag cgcaagtact ggctgaatga cgactggtac ctgaagtaca tcacgctgaa
  301 gacgcccac ggggactaca tcgagttccc ctgctaccgc tggatcaccg gcgatgtcga
  361 ggttgtcctg agggatggac gcgcaaagtt ggcccgagat gaccaaattc acattctcaa
  421 gcaacaccga cgtaaagaac tggaaacacg gcaaaaacaa tatcgatgga tggagtggaa
  481 ccctggcttc cccttgagca tcgatgccaa atgccacaag gatttacccc gtgatacca
  541 gtttgatagt gaaaaaggag tggactttgt tctgaattac tccaaagcga tggagaacct
  601 gttcatcaac cgcttcatgc acatgttcca gtcttcttgg aatgacttcg ccgactttga

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661 gaaaatcttt gtcaagatca gcaacactat ttctgagcgg gtcatgaatc actggcagga
 721 agacctgatg tttggctacc agttcctgaa tggctgcaac cctgtgttga tccggcgctg
 781 cacagagetg eccgagaage teeeggtgae caeggagatg gtagagtgea geetggageg
 841 gcagctcagc ttggagcagg aggtccagca agggaacatt ttcatcgtgg actttgagct
 901 gctggatggc atcgatgcca acaaaacaga cccctgcaca ctccagttcc tggccqctcc
 961 catctgcttg ctgtataaga acctggccaa caagattgtc cccattgcca tccagctcaa
1021 ccaaatcccg ggagatgaga accetatttt cetecetteg gatgeaaaat acgaetgget
1081 tttggccaaa atctgggtgc gttccagtga cttccacgtc caccagacca tcacccacct
1141 tetgegaaca catetggtgt etgaggtttt tggcattgca atgtacegee agetgeetge
1201 tgtgcacccc attttcaagc tgctggtggc acacgtgaga ttcaccattg caatcaacac
1261 caaggcccgt gagcagctca tctgcgagtg tggcctcttt gacaaggcca acgccacagg
1381 gtgctttccc gaggccatca aggcccgggg catggagagc aaagaagaca tcccctacta
1441 cttctaccgg gacgacgggc tcctggtgtg ggaagccatc aggacgttca cggccgaggt
1501 ggtagacatc tactacgagg gcgaccaggt ggtggaggag gacccggagc tgcaggactt
1561 cgtgaacgat gtctacgtgt acggcatgcg gggccgcaag tcctcaggct tccccaagtc
1621 ggtcaagagc cgggagcagc tgtcggagta cctgaccgtg gtgatcttca ccgcctccgc
1681 ccagcacgcc gcggtcaact tcggccagta cgactggtgc tcctggatcc ccaatgcgcc
1741 cccaaccatg cgagcccgc caccgactgc caagggcgtg gtgaccattg agcagatcgt
1801 ggacacgctg cccgaccgcg gccgctcctg ctggcatctg ggtgcagtgt gggcgctgag
1861 ccagttccag gaaaacgagc tgttcctggg catgtaccca gaagagcatt ttatcgagaa
1921 gcctgtgaag gaagccatgg cccgattccg caagaacctc gaggccattg tcagcgtgat
1981 tgctgagcgc aacaagaaga agcagctgcc atattactac ttgtccccag accggattcc
2041 gaacagtgtg gccatctgag cacactgcca gtctcactgt gggaaggcca gctgccccag
2101 ccagatggac tccagcctgc ctggcaggtg tctggccagg cctcttggca gtcacatctc
2161 ttcctccgag gccagtacct ttccatttat tctttgatct tcagggaact gcatagattg
2221 atcaaagtgt aaacaccata gggacccatt ctacacagag caggactgca cagcgtcctg
2281 tccacacca gctcagcatt tccacaccaa gcagcaacag caaatcacga ccactgatag
2341 atgtctattc ttgttggaga catgggatga ttattttctg ttctatttgt gcttagtcca
2401 attecttgca catagtaggt acceaattca attactattg aatgaattaa gaattggttg
2461 ccataaaaat aaatcagttc attt
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#### (2) INFORMATION FOR SEQ ID NO:2821:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2497 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2821:
- 1 gggcgccgag gctccccgcc gctcgctgct ccccggcccg cgccatgccc tcctacacgg 61 teacegtgge caetggeage cagtggtteg eeggeactga egactacate taceteagee 121 togtgggctc ggcgggctgc agcgagaagc acctgctgga caagcccttc tacaacgact 181 tcgagcgtgg cgcggtggat tcatacgacg tgactgtgga cgaggaactg ggcgagatcc 241 agctggtcag aatcgagaag cgcaagtact ggctgaatga cgactggtac ctgaagtaca 301 tcacgctgaa gacgccccac ggggactaca tcgagttccc ctgctaccgc tggatcaccg 361 gcgatgtcga ggttgtcctg agggatggac gcgcaaagtt ggcccgagat gaccaaattc 421 acatteteaa geaacaeega egtaaagaae tggaaacaeg geaaaaacaa tategatgga 481 tggagtggaa ccctggcttc cccttgagca tcgatgccaa atgccacaaq gatttacccc 541 gtgatatcca gtttgatagt gaaaaaggag tggactttgt tctgaattac tccaaagcga 601 tggagaacct gttcatcaac cgcttcatgc acatgttcca gtcttcttgg aatgacttcg 661 ccgactttga gaaaatcttt gtcaagatca gcaacactat ttctgagcgg gtcatgaatc 721 actggcagga agacctgatg tttggctacc agttcctgaa tggctgcaac cctgtgttga 781 tecggegetg cacagagetg eeegagaage teeeggtgae caeggagatg gtagagtgea 841 gcctggagcg gcagctcagc ttggagcagg aggtccagca agggaacatt ttcatcgtgg 901 actttgagct gctggatggc atcgatgcca acaaaacaga cccctgcaca ctccagttcc 961 tggccgctcc catctgcttg ctgtataaga acctggccaa caagattgtc cccattgcca 1021 tccagctcaa ccaaatcccg ggagatgaga accctatttt cctcccttcg gatgcaaaat 1081 acgactggct tttggccaaa atctgggtgc gttccagtga cttccacgtc caccagacca 1141 tcacccacct tctgcgaaca catctggtgt ctgaggtttt tggcattgca atgtaccgcc 1201 agctgcctgc tgtgcacccc attttcaagc tgctggtggc acacgtgaga ttcaccattg 1261 caatcaacac caaggcccgt gagcagctca tctgcgagtg tggcctcttt gacaaggcca

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2341 cgaccactga tagatgtcta ttcttgttgg agacatggga tgattatttt ctgttctatt
2401 tgtgcttagt ccaattcctt gcacatagta ggtacccaat tcaattacta ttgaatgaat
2461 taagaattgg ttgccataaa aataaatcag ttcattt
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- (2) INFORMATION FOR SEQ ID NO:2822:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 10151 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2822:

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601 tagttaaaaa aaaaaaaaaa aaaaaaaagg aagaagaagg cactgtgtaa ttgtgccggg
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	tctgggtgca					
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	ccgcggcccg					
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	acctgctgga					
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	tggtgcagag					
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	tcctggtgtg					
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	acggcatgcg					
	tgtcggagta					
	tcggccagta					
	caccgactgc					
	gccgctcctg					
	tgttcctggg					
	cccgattccg					
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		gcagcaacag				
		ttattttctg				
		attactattg				
		aaaaaaaaa				
		tcaccgtggc				
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		agctggtcag				
		tcacgctgaa				
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		acattctcaa				
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		ccgactttga				
		actggcagga				
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#### (2) INFORMATION FOR SEQ ID NO:2823:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2383 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2823:
- 1 ggcacgaggc tggctgagcc atgatgctgc tgccagaacc cctgcagagg gcctggtttc 61 aggagactca gagtcctctg tgaaaaagcc cttggagagg cgccccagca gggctgcact 121 tggctcctgt gaggaagggg ctcagggtct gggcccctcc gcctgggccg ggctgggagc 181 caggcggcg gctgggctgc agcaatggac cgtgagctgg cccagcccgc gtccgtgctg 241 agcctgcctg tcgtctgtgg ccatgccatc atgggctcct cggtgtacat cacggtggag 301 ctggccattg ctgtgctggc catcctgggc aatgtgctgg tgtgctgggc cgtgtggctc 361 aacagcaacc tgcagaacgt caccaactac tttgtggtgt cactggcggc ggccgacatc 421 gcagtgggtg tgctcgccat cccctttgcc atcaccatca gcaccgggtt ctgcgctgcc 481 tgccacggct gcctcttcat tgcctgcttc gtcctggtcc tcacgcagag ctccatcttc 541 agtotoctgg coatcgccat tgaccgctac attgccatcc gcatcccgct ccggtacaat 601 ggcttggtga ccggcacgag ggctaagggc atcattgcca tctgctgggt gctgtcgttt 661 gccatcggcc tgactcccat gctaggttgg aacaactgcg gtcagccaaa ggagggcaag 721 aaccactccc agggctgcgg ggagggccaa gtggcctgtc tctttgagga tgtggtcccc 781 atgaactaca tggtgtactt caacttettt geetgtgtge tggtgeeect getgeteatg 841 ctgggtgtct atttgcggat cttcctggcg gcgcgacgac agctgaagca gatggagagc 901 cagcctctgc cgggggagcg ggcacggtcc acactgcaga aggaggtcca tgctgccaag 961 tcactggcca tcattgtggg gctctttgcc ctctgctggc tgcccctaca catcatcaac 1021 tgcttcactt tcttctgccc cgactgcagc cacgcccctc tctggctcat gtacctggcc 1081 atcgtcctct cccacaccaa ttcggttgtg aatcccttca tctacgccta ccgtatccgc 1141 gagttccgcc agaccttccg caagatcatt cgcagccacg tcctgaggca gcaagaacct 1201 ttcaaggcag ctggcaccag tgcccgggtc ttggcagctc atggcagtga cggagagcag 1261 gtcagcctcc gtctcaacgg ccacccgcca ggagtgtggg ccaacggcag tgctcccac 1321 cctgagcgga ggcccaatgg ctatgccctg gggctggtga gtggagggag tgcccaagag 1381 teccagggga acaegggeet eccagaegtg gageteetta gecatgaget caagggagtg 1441 tgcccagage eccetggeet agatgaceee etggeecagg atggageagg agtgteetga

#### (2) INFORMATION FOR SEQ ID NO: 2824:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2988 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2824:

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1 catcaccttt ttttaagtag taagaataaa gccactgtat gattctctta atagctatac
  61 attaatcctg tttttagtgc tgactgggcc agccttccgg gaactggagt ctgtctcttt
 121 cagtgctttt ttgttttttg ttggtttttt cgagacgggg tcgatcacgg ctcaccacag
 181 ccttaacctc cagggctcca gcaatcctcc cacctcagcc tcctgagtag ctgggaccac
 241 aggtgtgtgc caccatctcc agcagtttgt ttatttattt tttcttttt ttttttggt
 301 agaaatgggc ttttcgccca tgttgcccaa gctggtcttg cacttctggg ctgaagcaat
 361 cctctcgcct tggcctccca gagccttggg attacagaat catgggtgag agctggcatg
 421 gcccctagag gtcatttggg gtccagctgc ctcaccgtat caatgaggaa actgaggccc
 481 agaaaagaaa agcatttttg cccagagtcc ctcagaaaaa aacagaccac atctgatcct
 541 tggccctgag tccagagtgg gaggcaccgt gacaacaatg cgcagagcag ggaatgcagg
 601 gagccatgga tagtgctggg gtgcctcagg aaccctgaag ctgggctgag ccatgatgct
 661 gctgccagaa cccctgcaga gggcctggtt tcaggagact cagagtcctc tgtgaaaaag
 721 cccttggaga gcgccccagc agggctgcac ttggctcctg tgaggaaggg gctcaggggt
 781 ctgggcccct ccgcctgggc cgggctggga gccaggcggg cggctgggct gcagcaatgg
 841 acceptgaget ggcccagece gegteegtge tgageetgee tgtegtetgt ggcatgeeca
 961 gcaatgtgct ggtgtgctgg gccgtgtggc tcaacagcaa cctgcagaac gtcaccaact
1021 actttgtggt gtcactggcg gcggccgaca tcgcagtggg tgtgctcgcc atcccctttg
1081 ccatcaccat cagcaccggg ttctgcgctg cctgccacgg ctgcctcttc attgcctgct
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1321 ggaacaactg cggtcagcca aaggagggca agaaccactc ccagggctgc ggggagggcc
1381 aagtggcctg tctctttgag gatgtggtcc ccatgaacta catggtgtac ttcaacttct
1441 ttgcctgtgt gctggtgccc ctgctgctca tgctgggtgt ctatttgcgg atcttcctgg
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1561 ccacactgca gaaggaggtc catgctgcca agtcactggc catcattgtg gggctctttg
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1681 gccacgcccc tctctggctc atgtacctgg ccatcgtcct ctcccacacc aattcggttg
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2101 ccctggccca ggatggagca ggagtgtcct gatgattcat ggagtttgcc ccttcctaag
2161 ggaaggagat ctttatcttt ctggttggct tgaccagtca cgttgggaga agagagaga
2221 tgccaggaga ccctgagggc agccggttcc tactttggac tgagagaagg gagccccagg
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### (2) INFORMATION FOR SEQ ID NO:2825:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2156 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2825:

1 ggcacgagcc cagaaacaaa gacttcacgg acaaagtccc ttggaaccag agagaagccg 61 ggatggaaac tccaaacacc acagaggact atgacacgac cacagagttt gactatgggg 121 atgcaactcc gtgccagaag gtgaacgaga gggcctttgg ggcccaactg ctgcccctc 181 tgtactcctt ggtatttgtc attggcctgg ttggaaacat cctggtggtc ctggtccttg 241 tgcaatacaa gaggctaaaa aacatgacca gcatctacct cctgaacctg gccatttctg 301 acctgetett cetgttcacg ettecettet ggategaeta caagttgaag gatgaetggg 361 tttttggtga tgccatgtgt aagatcctct ctgggtttta ttacacaggc ttgtacagcg 421 agatetttt cateateetg etgacgattg acaggtacet ggccategte caegeegtgt 481 ttgccttgcg ggcacggacc gtcacttttg gtgtcatcac cagcatcatc atttgggccc 541 tggccatctt ggcttccatg ccaggcttat acttttccaa gacccaatgg gaattcactc 601 accacactg cagcettcac tttcctcacg aaagcctacg agagtggaag ctgtttcagg 661 ctctgaaact gaacctcttt gggctggtat tgcctttgtt ggtcatgatc atctgctaca 721 cagggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtccgtt 781 tgatttttgt catcatgatc atctttttc tcttttggac cccctacaat ttgactatac 841 ttatttctgt tttccaagac ttcctgttca cccatgagtg tgagcagagc agacatttgg 901 acctggctgt gcaagtgacg gaggtgatcg cctacacgca ctgctgtgtc aacccagtga 961 tctacgcctt cgttggtgag aggttccgga agtacctgcg gcagttgttc cacaggcgtg 1021 tggctgtgca cctggttaaa tggctcccct tcctctccgt qqacaqqctq qaqaqqqtca 1081 gctccacatc tccctccaca ggggagcatg aactctctgc tgggttctga ctcagaccat 1141 aggaggccaa cccaaaataa gcaggcgtga cctgccaggc acactgagcc agcagcctgg 1201 ctctcccagc caggttctga ctcttggcac agcatggagt cacagccact tgggatagag 1261 agggaatgta atggtggcct ggggcttctg aggcttctgg ggcttcagtc ttttccatga 1321 acttctcccc tggtagaaag aagatgaatg agcaaaacca aatattccag agactgggac 1381 taagtgtacc agagaagggc ttggactcaa gcaagatttc agatttgtga ccattagcat 1441 ttgtcaacaa agtcacccac ttcccactat tgcttgcaca aaccaattaa acccagtagt 1501 ggtgactgtg ggctccattc aaagtgagct cctaagccat gggagacact gatgtatgag 1561 gaatttetgt tettecatea cetececee eeegecaeee teecaetgee aagaaettgg 1621 aaatagtgat ttccacagtg actccactct gagtcccaga gccaatcagt agccagcatc 1681 tgcctcccct tcactcccac cgcaggattt gggctcttgg aatcctgggg aacatagaac 1741 tcatgacgga agagttgaga cctaacgaga aatagaaatg ggggaactac tgctggcagt 1801 ggaactaaga aagcccttag gaagaatttt tatatccact aaaatcaaac aattcaggga 1861 gtgggctaag cacgggccat atgaataaca tggtgtgctt cttaaaatag ccataaaggg 1921 gagggactca tcatttccat ttacccttct tttctgacta tttttcagaa tctctcttct 1981 tttcaagttg ggtgatatgt tggtagattc taatggcttt attgcagcga ttaataacag 2041 gcaaaaggaa gcagggttgg tttcccttct ttttgttctt catctaagcc ttctggtttt 

#### (2) INFORMATION FOR SEQ ID NO:2826:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 949 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2826:

1

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1 agaagetttt geteetggga ttaggttgat gggeetetaa tgteaceagt gaaatgggat
 61 attagatatt ttccagctag gatacgacag ctcccaataa aaccaaatta ctaagccttt
121 tctgcaagca aggagccgtc tggaacataa ggactttaac cttgggtagg agacaggcaa
181 gcagaagtct tcaattgtgt cacaattttc actgaggact caagtgacct aagaaagtaa
241 ttgtgattgt cagageettg ttetteettt tettteteea geegeaeget teacetaete
301 aggagagtgc ctacgcaatc tgacttgaca gcttctagaa agaaattaga gcaacagggg
361 teteageagg gtggtettgg gecaaacact gaaageagge aggettaece ttteetette
421 tgccccttc aactttttcc tgatgttctt acccacatcc ctcaccacac cacacccttt
481 cattcatcct tgtcccagac ttattaagta tatacagata agcaatccag ggaacttgca
541 ttcattagga gaaacccaqa aattcaaaag caataatgat ctaatcccag aggagtagaa
601 aacaggaagt gggcagctgc cagctttctt gctttgctgg agtattctgg aatttgatgg
661 qttgaqqqtt ctggacacaa tgccccaagc cccttccttg ttgtgctggg ttcctatttc
721 tgctctcggc actgacttag cagctgctca agagctcact atgttggctt ggattacact
781 ggtctcaccc acatctccgg cagtttgtgg gcaaacctcc tgagcagcct tgggtgatga
841 aacctttcat ggtagcagga gaatgggact gtgaattctc aatcccctgt ccccacccct
901 teetteetet eteagggeet taaagtetag gaggaggaag cacageage
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- (2) INFORMATION FOR SEQ ID NO:2827:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3734 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2827:
- 1 cttgctttgc tggagtattc tggtaatttg atgggttgag ggttctggac acaatgcccc 61 aagccccttc cttgttgtgc tgggttccta tttctgctct cggcactgac ttagcagctg 121 ctcaagagct cactatgttg gcttggatta cacggtctca cccacatctc cggcagtttg 181 tgggcaaacc tcctgagcag ccttgggtga tgaaaccttt catggtagca ggagaatggg 241 actgtgaatt ctcaatcccc tgtccccacc ccttccttcc tctctcaggg ccttaaagtc 301 taggaggagg aagcacagca gcaactgact gggcagcctt tcaggaaaga tgcagccact 361 cctgcttctg ctggcctttc tcctacccac tggggctgag gcaggtgagt gaccatcccc 421 acceteagag geetgaeete ateceataga ttettgagee aaattgeett ggtatateet 481 aattctgtac tgttgagcaa gttatttgaa tttgtgtttc ctcatctata aaatgagaat 541 aatattaata ccgatcttgc agagttgcca tgagagttaa ataagttaga gtatttaaat 601 gtcttggaat tgcccgcaca ctataagtgc tataaaaaca tgctttgtgt aaataatttg 661 gcagcatgtg tcagacccta cctaggaggt aagaatacag caataacagt accatcagct 721 catgtctaga tttttaaaca ccagtcccac gtggtcttga attggactca gagggctctg 781 ggaagctcca tgaggataaa agtataaggg aacttcagga acaatcctgt acttacagca 841 aagcattctc ctcaatacct gaggctgaag ctggccttgc ctggaacaag ggttgttctc 901 cctcttttgg agaggaggag ggaggtgagg cctaggatgg ggaaaagggc tcctttcaag 961 acagcagtgt ttcctgtaga accctggagc cccctcccaa tctgctgccc catagactcc 1021 aagcctcagc accatctcct ccctctcctg caccctctct cctgccgtcc ccatcttcca 1081 gcctttctgg agccaccaat ctggtaccca cattgcaggt tcagcaagca tagagctaag 1141 tgccaaatgc ttccttccag gggagatcat cggaggccgg gagagcaggc cccactcccg 1201 cccctacatg gcgtatcttc agatccagag tccagcaggt cagagcagat gtgqagggtt 1261 cctggtgcga gaagactttg tgctgacagc agctcattgc tgggggaaggt gaggagctaa 1321 ggaacttcct ggccagccag gaacacagcc ctgcggagct cttcggtgga agagccatct 1381 gaaagaagag ttgtagcaat gaaagggtga aagaaagacc aagtgagtct ttgcgggagg 1441 gaacaggcca gtgtaaatga ggaggaaagg aggataagat caaaaagagc aagaggaaga 1501 gatggaagac acatattggg gctcaaaata taaactcagg ctatttatca acttaatctg 1561 gggaagtaaa cctgaaggca agtaccaccc tgtcatccct agctcagagc tqctgagaaa 1621 gaggatacag ctgagcccca gggccctccc atcccctcga ttctgqttag ctgcagtctt 1681 gccctccccg tgctgtctgc ctaccctgca gagctggtgg accatagctc ctgcagccca 1741 gacctacctc ttgcttttgc agcaatataa atgtcaccct gggcgcccac aatatccaga 1801 gacgggaaaa cacccagcaa cacatcactg cgcgcagagc catccgccac cctcaatata 1861 atcagcggac catccagaat gacatcatgt tattgcaggt accacctacc tggccctctg 1921 gctccttcct agtgtgtccg gggacaatgg aggaggaagt gagggcaagg ctccggggtg 1981 gcggggaggg catgggatgt gtactgcacc agcgaccccc gagccttggc tggaggcccc 2041 agctgagcgg gaacgcctac attcttcctc cagctgagca gaagagtcag acggaatcga 2101 aacgtgaacc cagtggctct gcctagagcc caggagggac tgagacccgg gacgctgtgc 2161 actgtggccg gctggggcag ggtcagcatg aggaggggaa cagatacact ccgagaggtg 2221 cagctgagag tgcagaggga taggcagtgc ctccgcatct tcggttccta cgaccccga

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2281 aggcagattt gtgtggggga ccggcgggaa cggaaggctg ccttcaaggt aaggcatggg
2341 cattggccaa cacacccgg gagagagggg cccgtgcaga gccaggcagt gcgaacagat
2401 tecatececa cageeteage etggeageea gaceagggtg ggetggggat tgtttteece
2461 atcaacctgg tctctggggg aataggagga agacccacaa cacatacata ggcaacattc
2521 teetggagaa gggagaggta eettgaetea gattgggetg gagacagtaa ttaaggeaga
2581 gctgaagtcc agcgaccgaa aagatccaga ggcttggctc ctgtacccca ccqatcttcc
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2701 gagctcaggg aagcaggagc agggaggcct gtctcagtct cccttctcct ctctacctac
2761 agggggattc cggaggcccc ctgctgtgta acaatgtggc ccacggcatc qtctcctatq
2821 gaaagtcgtc aggggttcct ccaqaaqtct tcaccagggt ctcaaqtttc ctgccctgga
2881 taaggacaac aatgagaagc ttcaaactgc tggatcagat ggagaccccc ctgtgactga
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3121 tcacaggtct agaggctaag aagtctaaga tcaagtcact agcagattca gtgtctaatt
3181 agggcccatt ttctggttca cagacaacca tcctctccct gtgtccacat atggcaaaag
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3481 acccacgagg ttgaggcttc agtgaaccat gcactccagc ctgagcgaca gagcaagaca
3541 ccattccaag aaagaaaaa aaaaagactg gcaggccaaa aagacagaac tgaaattcca
3601 aaaaaaaaga cctactttag tgtatgaaaa aggtggcatc tcaaatcact gggaaacaat
3661 ggaatttttg aataaatagc attagaacca acctagatag atatttggag gggatggaag
3721 gtataattgg atcc
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- (2) INFORMATION FOR SEQ ID NO:2828:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4683 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2828:
- 1 agaagetttt geteetggga ttaggttgat gggeetetaa tgteaceagt gaaatgggat 61 attagatatt ttccagctag gatacgacag ctcccaataa aaccaaatta ctaagccttt 121 tctgcaagca aggagccgtc tggaacataa ggactttaac cttgggtagg agacaggcaa 181 gcagaagtct tcaattgtgt cacaattttc actgaggact caagtgacct aagaaagtaa 241 ttgtgattgt cagageettg ttetteettt tettteteea geegeaeget teacetaete 301 aggagagtgc ctacgcaatc tgacttgaca gcttctagaa agaaattaga gcaacagggg 361 tctcagcagg gtggtcttgg gccaaacact gaaagcaggc aggcttaccc tttcctcttc 421 tgcccccttc aactttttcc tgatgttctt acccacatcc ctcaccacac cacacccttt 481 cattcatcct tgtcccagac ttattaagta tatacagata agcaatccag ggaacttgca 541 ttcattagga gaaacccaga aattcaaaag caataatgat ctaatcccag aggagtagaa 601 aacaggaagt gggcagctgc cagctttctt gctttgctgg agtattctgg aatttgatgg 661 gttgagggtt ctggacacaa tgccccaagc cccttccttg ttgtgctggq ttcctatttc 721 tgctctcggc actgacttag cagctgctca agagctcact atgttggctt ggattacact 781 ggtctcaccc acatctccgg cagtttgtgg gcaaacctcc tgagcagcct tgggtgatga 841 aacctttcat ggtagcagga gaatgggact gtgaattctc aatcccctgt ccccacccct 961 ggagtattet ggtaatttga tgggttgagg gttetggaca caatgeecca ageecettee 1021 ttgttgtgct gggttcctat ttctgctctc ggcactgact tagcagctgc tcaagagctc 1081 actatgttgg cttggattac acggtctcac ccacatctcc ggcagtttgt gggcaaacct 1141 cctgagcagc cttgggtgat gaaacctttc atggtagcag gagaatggga ctgtgaattc 1201 tcaatcccct gtccccaccc cttccttcct ctctcagggc cttaaagtct aggaggagga 1261 agcacagcag caactgactg ggcagccttt caggaaagat gcagccactc ctgcttctgc 1321 tggcctttct cctacccact ggggctgagg caggtgagtg accatcccca ccctcagagg 1381 cctgacctca tcccatagat tcttgagcca aattgccttg gtatatccta attctgtact 1441 gttgagcaag ttatttgaat ttgtgtttcc tcatctataa aatgagaata atattaatac 1501 cgatcttgca gagttgccat gagagttaaa taagttagag tatttaaatg tcttggaatt 1561 gcccgcacac tataagtgct ataaaaacat gctttgtgta aataatttgg cagcatgtgt 1621 cagaccctac ctaggaggta agaatacagc aataacagta ccatcagctc atgtctagat 1681 ttttaaacac cagtcccacg tggtcttgaa ttggactcag agggctctgg gaagctccat

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1741 gaggataaaa gtataaggga acttcaggaa caatcctgta cttacagcaa agcattctcc
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1861 gaggaggagg gaggtgaggc ctaggatggg gaaaagggct cctttcaaga cagcagtgtt
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1981 ccatctcctc cctctcctgc accetctctc ctgccgtccc catcttccag cctttctgga
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2161 cgtatcttca gatccagagt ccagcaggtc agagcagatg tggagggttc ctggtgcgag
2221 aagactttgt gctgacagca gctcattgct ggggaaggtg aggagctaag gaacttcctg
2281 gccagccagg aacacagccc tgcggagctc ttcggtggaa gagccatctg aaagaagagt
2341 tgtagcaatg aaagggtgaa agaaagacca agtgagtctt tgcgggaggg aacaggccag
2401 tgtaaatgag gaggaaagga ggataagatc aaaaagagca agaggaagag atggaagaca
2461 catattgggg ctcaaaatat aaactcaggc tatttatcaa cttaatctgg ggaagtaaac
2521 ctgaaggcaa gtaccaccct gtcatcccta gctcagagct gctgagaaag aggatacagc
2581 tgagccccag ggccctccca tcccctcgat tctggttagc tgcagtcttg ccctccccgt
2641 gctgtctgcc taccctgcag agctggtgga ccatagctcc tgcagcccag acctacctct
2701 tgcttttgca gcaatataaa tgtcaccctg ggcgcccaca atatccagag acgggaaaac
2761 acccagcaac acatcactgc gcgcagagcc atccgccacc ctcaatataa tcagcggacc
2821 atccagaatg acatcatgtt attgcaggta ccacctacct ggccctctgg ctccttccta
2881 qtqtqtccqq qqacaatqqa qqaqqaaqtq aqqqcaaqqc tccqqqqtgg cggggagggc
2941 atgggatgtg tactgcacca gcgacccccg agccttggct ggaggcccca gctgagcggg
3001 aacgcctaca ttcttcctcc agctgagcag aagagtcaga cggaatcgaa acgtgaaccc
3061 agtggctctg cctagagccc aggagggact gagacccggg acgctgtgca ctgtggccgg
3121 ctggggcagg gtcagcatga ggaggggaac agatacactc cgagaggtgc agctgagagt
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3301 acacccggg agagagggc ccgtgcagag ccaggcagtg cgaacagatt ccatccccac
3361 agcctcagcc tggcagccag accagggtgg gctggggatt gttttcccca tcaacctggt
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3541 qcqaccqaaa agatccagag gcttggctcc tgtaccccac cgatcttcca tctcacacac
3601 acccaqcaat tgaaggggcc cacccacccc tgccttccct gagagcccgg agctcaggga
3661 agcaggagca gggaggcctg tctcagtctc ccttctcctc tctacctaca gggggattcc
3721 ggaggccccc tgctgtgtaa caatgtggcc cacggcatcg tctcctatgg aaagtcgtca
3781 ggggttcctc cagaagtctt caccagggtc tcaagtttcc tgccctggat aaggacaaca
3841 atgagaaget teaaactget ggateagatg gagaceeece tgtgaetgae tettettete
3901 ggggacacag gccagctcca cagtgttgcc agagccttaa taaacgtcca cagagtataa
3961 ataaccaatt cctcatttgt tcattaaacg tcattcagta cttagtttgt ttggattgct
4021 acaacaaaat agcacaaatt gggtggctta taaataacaa atttattct cacaggtcta
4081 gaggctaaga agtctaagat caagtcacta gcagattcag tgtctaatta gggcccattt
4141 tctqqttcac agacaaccat cctctcctq tqtccacata tqqcaaaagg qqcaagggaa
4201 ttctctqatq tctcttttac aaqqqaccta qtctcattca aaqaqctcaq cttttacqac
4261 ctaatcacat cccaaaqqcc ccacctaatq ccatcacqac attqqqqatt agqtctqqqa
4321 aacataggga aagagtgtct ctacacaaaa attttaaaat tagccaggca tggtggcatg
4381 tqtctataqt cccaqctact tqqqaqqcta aaqtqqaaqq attaqttqaa cccacqaqqt
4441 tgaggettea gtgaaceatg cactecagee tgagegacag ageaagacae cattecaaga
4501 aagaaaaaaa aaaagactgg caggccaaaa agacagaact gaaattccaa aaaaaaagac
4561 ctactttagt gtatgaaaaa ggtggcatct caaatcactg ggaaacaatg gaatttttga
4621 ataaatagca ttagaaccaa cctagataga tatttggagg ggatggaagg tataattgga
4681 tcc
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- (2) INFORMATION FOR SEQ ID NO:2829:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2156 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2829:
  - 1 ggcacgagcc cagaaacaaa gacttcacgg acaaagtccc ttggaaccag agagaagccg
  - 61 ggatggaaac tccaaacacc acagaggact atgacacgac cacagagttt gactatgggg
  - 121 atgcaactcc gtgccagaag gtgaacgaga gggcctttgg ggcccaactg ctgcccctc

181 tgtactcctt ggtatttgtc attggcctgg ttggaaacat cctggtggtc ctggtccttg 241 tgcaatacaa gaggctaaaa aacatgacca gcatctacct cctgaacctg gccatttctg 301 acctgctctt cctgttcacg cttcccttct ggatcgacta caagttgaag gatgactggg 361 tttttggtga tgccatgtgt aagatcctct ctgggtttta ttacacaggc ttgtacagcg 421 agatettitt cateateetg etgaegattg acaggtaeet ggeeategte caegeegtgt 481 ttgccttgcg ggcacggacc gtcacttttg gtgtcatcac cagcatcatc atttgggccc 541 tggccatctt ggcttccatg ccaggcttat acttttccaa gacccaatgg gaattcactc 601 accacacty cagcettcac tttcctcacy aaagcetacy agagtggaag ctgtttcagg 661 ctctgaaact gaacctcttt gggctggtat tgcctttgtt ggtcatgatc atctgctaca 721 cagggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtccgtt 781 tgatttttgt catcatgatc atctttttc tcttttggac cccctacaat ttgactatac 841 ttatttctgt tttccaagac ttcctgttca cccatgagtg tgagcagagc agacatttgg 901 acctggctgt gcaagtgacg gaggtgatcg cctacacgca ctgctgtgtc aacccagtga 961 totacgcctt cqttqqtqaq aqqttccqqa aqtacctqcq qcaqttqttc cacaqqcqtq 1021 tggctgtgca cctggttaaa tggctcccct tcctcccgt ggacaggctg gagagggtca 1081 gctccacatc tccctccaca ggggagcatg aactctctgc tgggttctga ctcagaccat 1141 aggaggecaa eccaaaataa geaggegtga eetgeeagge acaetgagee ageageetgg 1201 ctctcccagc caggttctga ctcttggcac agcatggagt cacagccact tgggatagag 1261 agggaatgta atggtggcct ggggcttctg aggcttctgg ggcttcagtc ttttccatga 1321 acttctcccc tggtagaaag aagatgaatg agcaaaacca aatattccag agactgggac 1381 taagtgtacc agagaagggc ttggactcaa gcaagatttc agatttgtga ccattagcat 1441 ttgtcaacaa agtcacccac ttcccactat tgcttgcaca aaccaattaa acccagtagt 1501 ggtgactgtg ggctccattc aaagtgagct cctaagccat gggagacact gatgtatgag 1561 gaatttctgt tcttccatca cctcccccc cccgccaccc tcccactgcc aagaacttgg 1621 aaatagtgat ttccacagtg actccactct gagtcccaga gccaatcagt agccagcatc 1681 tgcctcccct tcactcccac cgcaggattt gggctcttgg aatcctgggg aacatagaac 1741 tcatgacgga agagttgaga cctaacgaga aatagaaatg ggggaactac tgctggcagt 1801 ggaactaaga aagcccttag gaagaatttt tatatccact aaaatcaaac aattcaggga 1861 gtgggctaag cacgggccat atgaataaca tggtgtgctt cttaaaatag ccataaaggg 1921 gagggactca tcatttccat ttacccttct tttctgacta tttttcagaa tctctcttct 1981 tttcaagttg ggtgatatgt tggtagattc taatggcttt attgcagcga ttaataacag 2041 gcaaaaggaa gcagggttgg tttcccttct ttttgttctt catctaagcc ttctggtttt 

### (2) INFORMATION FOR SEQ ID NO:2830:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2955 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2830:

1 gagagcccc ccccgagac tgaaagtttt ggagattcag gggtcggggg aaagggttca 61 ggaaatggta attgagtttc caagggatag tgttacaagt ggtatgggag gccccctatt 121 tctgatagta atagagaata ttttctttgt tcattatgat agaacccgtg ggataaagag 181 ggaaaataaa tgttgggagt cccccagggg agaggagaga atccaacagg gtgatttgct 241 gatatttgta cgaggagga aagaattttt caaagacaaa gttggagtga ggagtttttg 301 tagagggaac caggtggggt acaaagagag agacacactg agccggtggg aagggaagaa 361 ttaagagggg tgttccccca cactgtatat taagaaagaa aaacaatggg gacaggacgg 421 cagaagttag agtttcttaa ccaggatgag agggggattt cacggtaact aatgagtgat 481 ttcagacctt attccactat cccagggcaa tcagatatta atcatgtaca agttgaaatc 541 atgcgtgtcc tttgaggtaa gacttacata atcctattta gcataacagg cccccagatc 601 cagaaagggg agggttccgc ccctatcact gaaggggatc agggatatga aagtggctca 661 tggttgacca tcacgtttaa caggaatggg caatcaggag gggtaggtcc aattgtgacc 721 aacagaccaa acttccatta atgcttgcgg ttcttgtggc aaagccagtc tgtgaggttt 781 gatggggatg gacttggtga gcagagagca gggggacaac gaatcccaga agctgagggg 841 aatggggttc caaagagccg ctgctgcctc tgggagcacc catgtcagtt agtttttccg 901 tacgggactc agggttccag attattcgtt tttaaatcct tccattcaca atctttaaga 961 agaagaaaaa aaagaagtct gccgctgacc acaagagctc tatgccctgc ccccatccca 1021 catacacaca teccacactt caattgetee aaacattetg ggaacatete aetgecacee 1081 acctcaccca actcagcttc acctgccccc aattccctta aggctgagct cccagggcca 1141 agactcaaga ggctcagagt gagcagagaa aatcctcgca gttaacttgg cttccaggaa 1201 gtggccactg gtgggcgttg tggccattca tgagcaccaa accacacaaa aagaactttg

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1261 tecettett gteattttga aagaetgtga aactggagee aatteteeat cateacacag
1321 gaagctgagt acttcctact tggtcaggat cttgaaactt gaattcataa aacccagaaa
1381 gccccagaaa caaagacttc acggacaaag tcccttggaa ccagagtaag tgtcacttgt
1441 cttttctgtc ttatctgtta ctgtggaggg cagtgttgtt caaagacatg catgcagcta
1501 ggggctcctc aaaggtaggg ggaattcttt gagtaggctg ggcaaatgtc taagtagccc
1561 atggatgcat ctccaaggca attaatactg tagcaatact gagaatggtg gatttataaa
1621 gctgggtgct cagatgaaat ataggctttt ttgctaaaaa ggaagcttac ttgaaggatt
1681 ggcttttggt tactgattaa gaaagtcagt cagtactaag ggacaaaagg tgttttctgt
1741 ggaaacctat tcaataagaa attacttggc ggggcgcagt ggctcacggc tgtaatccca
1801 gcactttggg agaccgaggc aggtggatca tgaggtcaag agatggagac aatcctggcc
1861 atatggtgaa accetgtete taetaaaaat aaaaattage egggeaggtg geegeageet
1921 gttagtccca gctactcaag aggctgaggc aggagaatca ctcgaatccg ggaggtggag
1981 gttgcagtga gctgagattg caccacaaca ctccagcctg gcgacagagc aagagtctgt
2041 ctqaaaaaaa aaaattgctt gccaaattcc cccaagtaaa ggaaaaccaa acatggtgta
2101 tgaagaaatt atagcaagag ggaaatatta gctagaaaaa tcttggcaga tgcaaggatg
2161 atttgatact gaacctatct cttaagaaga ctagaaccaa ggatcctcaa aattggcact
2221 gctatctttg gaagaggt aggctttcac tcacccaaag gcaaggagct ggccaggtga
2281 tcttgggggg catctgttct gctctactaa caaagacaca ggtcaggatt ttgttctgaa
2341 gatagagggg catggtggct ccgtataggt atctacttca taggtggcct tggtgggtcc
2401 cagatttcaa agaagagatg gaaactccca aaagtttgca caacctggca ccaggctatg
2461 tgccactcac tgatccttta gtccccgcac cgagcagtgg gacagtgctg gactgttcag
2521 aatgtggggc ctgggcagtg atgtgctggt aaatgttcaa caactgactc ttctgaagaa
2581 aagatccctg ctttataaca tttgttgatt ttcatggtat aaatgccccc actgtggtca
2641 gtttcaagct accaacatgc tgaatgtgga gtggggaaga gatgcacgca attggcattt
2701 ataaaccagt ataagccagc cagcgcacca taggcctggg tgtctttcac catcacagac
2761 tgctctactc tgctcagaga ctcaccaact cccaggctgg aagacactag cagtggaagg
2821 tccaggatcc agggctatac tgaccactgt gccagtggcc ttgaggcaga ctctgcagta
2881 gacaacance agggetggee nattagatga caacatgnee ttggteeete tegggeecaa
2941 cccagacacc tcctg
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- (2) INFORMATION FOR SEQ ID NO:2831:
  - (i) SEOUENCE CHARACTERISTICS:
    - (A) LENGTH: 1495 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2831:
- 1 atggaaactc caaacaccac agaggactat gacacgacca cagagtttga ctatggggat 61 gcaactccgt gccagaaggt gaacgagagg gcctttgggg cccaactgct gcccctctg 121 tactccttgg tatttgtcat tggcctggtt ggaaacatcc tggtggtcct ggtccttgtg 181 caatacaaga ggctaaaaaa catgaccagc atctacctcc tgaacctggc catttctgac 241 ctgctcttcc tgttcacgct tcccttctgg atcgactaca agttgaagga tgactgggtt 301 tttggtgatg ccatgtgtaa gatcctctct gggttttatt acacaggctt gtacagcgag 361 atctttttca tcatcctgct gacgattgac aggtacctgg ccatcgtcca cgccgtgttt 421 gccttgcggg cacggaccgt cacttttggt gtcatcacca gcatcatcat ttgggccctg 481 gccatcttgg cttccatgcc aggcttatac ttttccaaga cccaatggga attcactcac 541 cacacctgca gccttcactt tcctcacgaa agcctacgag agtggaagct gtttcaggct 601 ctgaaactga acctctttgg gctggtattg cctttgttgg tcatgatcat ctgctacaca 661 gggattataa agattctqct aagacgacca aatgagaaga aatccaaagc tqtccqtttq 721 atttttgtca tcatgatcat cttttttctc ttttggaccc cctacaattt gactatactt 841 ctggctgtgc aagtgacgga ggtgatcgcc tacacgcact gctgtgtcaa cccagtgatc 901 tacgccttcg ttggtgagag gttccggaag tacctgcggc agttgttcca caggcgtgtg 961 gctgtgcacc tggttaaatg gctccccttc ctctccgtgg acaggctgga gagggtcagc 1021 tocacatoto cotocacagg ggagcatgaa ctototgctg ggttotgact cagaccatag 1081 gaggccaacc caaaataagc aggcgtgacc tgccaggcac actgaccagc agcctggctc 1141 teccagecag gttetgaete ttggeacage atggagteeg eetettggat agagaggaat 1201 gtaatggtgg cetggggett etgaggette tgggettgag tetttteeat gaacttetee 1261 cctggtagaa aagaagatga atgagcaaaa ccaaatattc cagagactgg gactaagtgt 1321 accagagaag ggcttggact caagcaagat ttcagatttg tgaccattag catttgtcaa 1381 caaagtcacc cacttcccac tattgcttgc acaaaccaat taaacccagt agtggtgact 1441 gtgggctcca ttcaaagtga gctcctaagc catgggagac actgatgtat gagga

- (2) INFORMATION FOR SEQ ID NO:2832:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 6606 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2832:

1 ggcacqagcc cagaaacaaa gacttcacgg acaaagtccc ttggaaccag agagaagccg 61 qqatqqaaac tccaaacacc acaqaqqact atgacacgac cacagagttt gactatgggg 121 atgcaactcc gtgccagaag gtgaacgaga gggcctttgg ggcccaactg ctgcccctc 181 tqtactcctt qqtatttqtc attggcctgg ttggaaacat cctggtggtc ctggtccttg 241 tgcaatacaa gaggctaaaa aacatgacca gcatctacct cctgaacctg gccatttctg 301 acctgctctt cctgttcacg cttcccttct ggatcgacta caagttgaag gatgactggg 361 tttttggtga tgccatgtgt aagatcctct ctgggtttta ttacacaggc ttgtacagcg 421 agatetttt cateateetg etgacgattg acaggtacet ggccategte caegeegtgt 481 ttgccttgcg ggcacggacc gtcacttttg gtgtcatcac cagcatcatc atttgggccc 541 tggccatctt ggcttccatg ccaggcttat acttttccaa gacccaatgg gaattcactc 601 accacacty cagcetteae ttteeteacy aaageetacy agagtggaag etgttteagg 661 ctctgaaact gaacctcttt gggctggtat tgcctttgtt ggtcatgatc atctgctaca 721 cagggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtccgtt 781 tgatttttgt catcatgatc atctttttc tcttttggac cccctacaat ttgactatac 841 ttatttctqt tttccaaqac ttcctqttca cccatgagtg tgagcagagc agacatttgg 901 acctggctgt gcaagtgacg gaggtgatcg cctacacgca ctgctgtgtc aacccagtga 961 totacgeett cgttggtgag aggtteegga agtacetgeg geagttgtte cacaggegtg 1021 tggctgtgca cctggttaaa tggctcccct tcctctccgt ggacaggctg gagagggtca 1081 gctccacatc tccctccaca ggggagcatg aactctctgc tgggttctga ctcagaccat 1141 aggaggccaa cccaaaataa gcaggcgtga cctgccaggc acactgagcc agcagcctgg 1201 ctctcccagc caggttctga ctcttggcac agcatggagt cacagccact tgggatagag 1261 agggaatgta atggtggcct ggggcttctg aggcttctgg ggcttcagtc ttttccatga 1321 acttctcccc tggtagaaag aagatgaatg agcaaaacca aatattccag agactgggac 1381 taagtgtacc agagaagggc ttggactcaa gcaagatttc agatttgtga ccattagcat 1441 ttgtcaacaa agtcacccac ttcccactat tgcttgcaca aaccaattaa acccagtagt 1501 ggtgactgtg ggctccattc aaagtgagct cctaagccat gggagacact gatgtatgag 1561 gaatttetgt tetteeatca cetececee eeegecacee teecactgee aagaacttgg 1621 aaataqtqat ttccacaqtq actccactct gagtcccaga gccaatcagt agccagcatc 1681 tqcctcccct tcactcccac cgcaggattt gggctcttgg aatcctgggg aacatagaac 1741 tcatqacqqa aqaqttqaqa cctaacqaqa aatagaaatg ggggaactac tgctggcagt 1801 qqaactaaga aaqcccttaq qaaqaatttt tatatccact aaaatcaaac aattcaggga 1861 gtgggctaag cacgggccat atgaataaca tggtgtgctt cttaaaatag ccataaaggg 1921 gagggactca tcatttccat ttacccttct tttctgacta tttttcagaa tctctcttct 1981 tttcaagttg ggtgatatgt tggtagattc taatggcttt attgcagcga ttaataacag 2041 gcaaaaggaa gcagggttgg tttcccttct ttttgttctt catctaagcc ttctggtttt 2161 gcccccccc cgagactgaa agttttggag attcaggggt cgggggaaag ggttcaggaa 2221 atggtaattg agtttccaag ggatagtgtt acaagtggta tgggaggccc cctatttctg 2281 ataqtaataq agaatatttt ctttgttcat tatgatagaa cccgtgggat aaagagggaa 2341 aataaatgtt gggagtcccc caggggagag gagagaatcc aacagggtga tttgctgata 2401 tttgtacgag gagggaaaga atttttcaaa gacaaagttg gagtgaggag tttttgtaga 2461 gggaaccagg tggggtacaa agagagagac acactgagcc ggtgggaagg gaagaattaa 2521 gaggggtgtt cccccacact gtatattaag aaagaaaaac aatggggaca ggacggcaga 2581 agttagagtt tcttaaccag gatgagaggg ggatttcacgg taactaatg agtgatttca 2641 gaccttattc cactatccca gggcaatcag atattaatcat gtacaagtt gaaatcatgc 2701 gtgtcctttg aggtaagact tacataatcc tatttagcat aacaggcccc cagatccaga 2761 aaggggaggg ttccgcccct atcactgaag gggatcaggg atatgaaagt ggctcatggt 2821 tqaccatcac qtttaacaqq aatgggcaat caggaggggt aggtccaatt gtgaccaaca 2881 gaccaaactt ccattaatgc ttgcggttct tgtggcaaag ccagtctgtg aggtttgatg 2941 gggatggact tggtgagcag agagcagggg gacaacgaat cccagaagct gaggggaatg 3001 gggttccaaa gagccgctgc tgcctctggg agcacccatg tcagttagtt tttccgtacg 3061 ggactcaggg ttccagatta ttcgttttta aatccttcca ttcacaatct ttaagaagaa 3121 gaaaaaaaag aagtetgeeg etgaceacaa gagetetatg eeetgeeece ateceacata 3181 cacacatccc acacttcaat tgctccaaac attctgggaa catctcactg ccacccacct

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3241 cacccaactc agcttcacct gcccccaatt cccttaaggc tgagctccca gggccaagac
3301 tcaagaggct cagagtgagc agagaaaatc ctcgcagtta acttggcttc caggaagtgg
3361 ccactggtgg gcgttgtggc cattcatgag caccaaacca cacaaaaaga actttgtccc
3421 tttcttgtca ttttgaaaga ctgtgaaact ggagccaatt ctccatcatc acacaggaag
3481 ctgagtactt cctacttggt caggatcttg aaacttgaat tcataaaacc cagaaagccc
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3721 atgcatctcc aaggcaatta atactgtagc aatactgaga atggtggatt tataaagctg
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4001 qqtqaaaccc tqtctctact aaaaataaaa attaqccqqq caqqtqqccq caqcctqtta
4061 qtcccaqcta ctcaaqaqqc tqaqqcaqqa qaatcactcq aatccqqqaq qtqqaqqttq
4121 cagtgagetg agattgcace acaacactee ageetggega cagageaaga gtetgtetga
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4601 actcactgat cctttagtcc ccgcaccgag cagtgggaca gtgctggact gttcagaatg
4661 tggggcctgg gcagtgatgt gctggtaaat gttcaacaac tgactcttct gaagaaaaga
4721 tecetgettt ataacatttg ttgattttca tggtataaat geececactg tggteagttt
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4901 ctactctgct cagagactca ccaactccca ggctggaaga cactagcagt ggaaggtcca
4961 ggatccaggg ctatactgac cactgtgcca gtggccttga ggcagactct gcagtagaca
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5081 gacacctcct gatggaaact ccaaacacca cagaggacta tgacacgacc acagagtttg
5141 actatgggga tgcaactccg tgccagaagg tgaacgagag ggcctttggg gcccaactgc
5201 tgccccctct gtactccttg gtatttgtca ttggcctggt tggaaacatc ctggtggtcc
5261 tggtccttgt gcaatacaag aggctaaaaa acatgaccag catctacctc ctgaacctgg
5341 ccatttctqa cctqctcttc ctqttcacqc ttcccttctg gatcgactac aagttgaagg
5401 atgactgggt ttttggtgat gccatgtgta agatcctctc tgggttttat tacacaggct
5461 tgtacagcga gatctttttc atcatcctgc tgacgattga caggtacctg gccatcgtcc
5521 acgccgtgtt tgccttgcgg gcacggaccg tcacttttgg tgtcatcacc agcatcatca
5581 tttgggccct ggccatcttg gcttccatgc caggcttata cttttccaag acccaatggg
5641 aattcactca ccacacctgc agccttcact ttcctcacga aagcctacga gagtggaagc
5701 tgtttcaggc tctgaaactg aacctctttg ggctggtatt gcctttgttg gtcatgatca
5761 tetgetacae agggattata aagattetge taagaegaee aaatgagaag aaatecaaag
5821 ctgtccgttt gatttttgtc atcatgatca tcttttttct cttttggacc ccctacaatt
5941 gacatttgga cctggctgtg caagtgacgg aggtgatcgc ctacacgcac tgctgtgtca
6001 acccagtgat ctacgccttc gttggtgaga ggttccggaa gtacctgcgg cagttgttcc
6061 acaggcqtqt qqctqtqcac ctqqttaaat ggctcccctt cctctccqtg gacaggctgg
6121 agagggtcag ctccacatct ccctccacag gggagcatga actctctgct gggttctgac
6181 tcagaccata ggaggccaac ccaaaataag caggcgtgac ctgccaggca cactgaccag
6241 cagcctggct ctcccagcca ggttctgact cttggcacag catggagtcc gcctcttgga
6301 tagaqaqqaa tqtaatqqtq qcctqqqqct tctqaqqctt ctqgqcttqa qtcttttcca
6361 tgaacttctc ccctggtaga aaagaagatg aatgagcaaa accaaatatt ccagagactg
6421 ggactaagtg taccagagaa gggcttggac tcaagcaaga tttcagattt gtgaccatta
6481 gcatttgtca acaaagtcac ccacttccca ctattgcttg cacaaaccaa ttaaacccag
6541 tagtggtgac tgtgggctcc attcaaagtg agctcctaag ccatgggaga cactgatgta
6601 tgagga
```

- (2) INFORMATION FOR SEQ ID NO:2833:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1068 base pairs

- (B) TYPE: nucleic acid
  (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2833:

1 atgacaacct cactagatac agttgagacc tttggtacca catcctacta tgatgacgtg 61 ggcctgctct gtgaaaaagc tgataccaga gcactgatgg cccagtttgt gcccccgctg 121 tactccctgg tgttcactgt gggcctcttg ggcaatgtgg tggtggtgat gatcctcata 181 aaatacagga ggctccgaat tatgaccaac atctacctgc tcaacctggc catttcggac 241 ctgctcttcc tcgtcaccct tccattctgg atccactatg tcagggggca taactgggtt 301 tttggccatg gcatgtgtaa gctcctctca gggttttatc acacaggctt gtacagcgag 361 atcttttca taatcctgct gacaatcgac aggtacctgg ccattgtcca tgctgtgttt 421 gcccttcgag cccggactgt cacttttggt gtcatcacca gcatcgtcac ctggggcctg 481 gcagtgctag cagctcttcc tgaatttatc ttctatgaga ctgaagagtt gtttgaagag 541 actctttgca gtgctcttta cccagaggat acagtatata gctggaggca tttccacact 601 ctgagaatga ccatcttctg tctcgttctc cctctgctcg ttatggccat ctgctacaca 661 ggaatcatca aaacgctgct gaggtgcccc agtaaaaaaa agtacaaggc catccggctc 721 atttttgtca tcatggcggt gtttttcatt ttctggacac cctacaatgt ggctatcctt 781 ctctcttcct atcaatccat cttatttgga aatgactgtg agcggagcaa gcatctggac 841 ctggtcatgc tggtgacaga ggtgatcgcc tactcccact gctgcatgaa cccggtgatc 901 tacgcctttg ttggagagag gttccggaag tacctgcgcc acttcttcca caggcacttg 961 ctcatgcacc tgggcagata catcccattc cttcctagtg agaagctgga aagaaccagc

- (2) INFORMATION FOR SEQ ID NO:2834:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1201 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2834:

1021 tctgtctctc catccacagc agagccggaa ctctctattg tgttttag

1 tttttcttct tctatcacag ggagaagtga aatgacaacc tcactagata cagttgagac 61 ctttggtacc acatcctact atgatgacgt gggcctgctc tgtgaaaaag ctgataccag 121 agcactgatg gcccagtttg tgcccccgct gtactccctg gtgttcactg tgggcctctt 181 gggcaatgtg gtggtggtga tgatcctcat aaaatacagg aggctccgaa ttatgaccaa 241 catctacctg ctcaacctgg ccatttcgga cctgctcttc ctcgtcaccc ttccattctg 301 gatccactat gtcagggggc ataactgggt ttttggccat ggcatgtgta agctcctctc 361 agggttttat cacacaggct tgtacagcga gatcttttc ataatcctgc tgacaatcga 421 caggtacetg gccattgtcc atgctgtgtt tgcccttcga gcccggactg tcacttttgg 481 tgtcatcacc agcatcgtca cctggggcct ggcagtgcta gcagctcttc ctgaatttat 541 cttctatgag actgaagagt tgtttgaaga gactctttgc agtgctcttt acccagagga 601 tacagtatat agctggaggc atttccacac tctgagaatg accatcttct gtctcgttct 661 ccctctgctc gttatggcca tctgctacac aggaatcatc aaaacgctgc tgaggtgccc 721 cagtaaaaaa aagtacaagg ccatccggct catttttgtc atcatggcgg tgtttttcat 781 tttctggaca ccctacaatg tggctatcct tctctctcc tatcaatcca tcttatttgg 841 aaatgactgt gagcggagca agcatctgga cctggtcatg ctggtgacag aggtgatcgc 901 ctactcccac tgctgcatga acccggtgat ctacgccttt gttggagaga ggttccggaa 961 gtacctgcgc cacttcttcc acaggcactt gctcatgcac ctgggcagat acatcccatt 1021 ccttcctagt gagaagctgg aaagaaccag ctctgtctct ccatccacag cagagccgga 1081 actctctatt gtgttttagg tcagatgcag aaaattgcct aaagaggaag gaccaaggag 1141 atgaagcaaa cacattaagc cttccacact cacctctaaa acagtccttc aaacttccag

- (2) INFORMATION FOR SEQ ID NO:2835:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1689 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2835:
  - 1 aatcettte etggeacete tgatateett ttgaaattea tgttaaagaa teeetagget
  - 61 gctatcacat gtggcatctt tgttgagtac atgaataaat caactggtgt gttttacgga
  - 121 ggatgattat gcttcattgt gggattgtat ttttcttctt ctatcacagg gagaagtgaa
  - 181 atgacaacct cactagatac agttgagacc tttggtacca catcctacta tgatgacgtg

1201 t

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241 ggcctgctct gtgaaaaagc tgataccaga gcactgatgg cccagtttgt gcccccgctg
301 tactccctgg tgttcactgt gggcctcttg ggcaatgtgg tggtggtgat gatcctcata
361 aaatacagga ggctccgaat tatgaccaac atctacctgc tcaacctggc catttcggac
421 ctgctcttcc tcgtcaccct tccattctgg atccactatg tcagggggca taactgggtt
481 tttggccatg gcatgtgtaa gctcctctca gggttttatc acacaggctt gtacagcgag
541 atcttttca taatcctgct gacaatcgac aggtacctgg ccattgtcca tgctgtgttt
601 gcccttcgag cccggactgt cacttttggt gtcatcacca gcatcgtcac ctggggcctg
661 gcagtgctag cagctcttcc tgaatttatc ttctatgaga ctgaagagtt gtttgaagag
721 actotttgca gtgctcttta cccagaggat acagtatata gctggaggca tttccacact
781 ctgagaatga ccatcttctg tctcgttctc cctctgctcg ttatggccat ctgctacaca
841 ggaatcatca aaacgctgct gaggtgcccc agtaaaaaa agtacaaggc catccggctc
901 atttttgtca tcatggcggt gtttttcatt ttctggacac cctacaatgt ggctatcctt
961 ctctcttcct atcaatccat cttatttgga aatgactgtg agcggacgaa gcatctggac
1021 ctggtcatgc tggtgacaga ggtgatcgcc tactcccact gctgcatgaa cccggtgatc
1081 tacgcctttg ttggagagag gttccggaag tacctgcgcc acttcttcca caggcacttg
1141 ctcatgcacc tgggcagata catcccattc cttcctagtg agaagctgga aagaaccagc
1201 tctgtctctc catccacagc agagccggaa ctctctattg tgttttaggt agatgcagaa
1261 aattgcctaa agaggaagga ccaaggagat naagcaaaca cattaagcct tccacactca
1321 cctctaaaac agtccttcaa accttccagt gcaacactga agctcttaag acactgaaat
1381 atacacacag cagtagcagt agatgcatgt accctaaggt cattaccaca ggccagggct
1441 gggcagcgta ctcatcatca acctaaaaag cagagctttg cttctctct taaaatgagt
1501 tacctatatt ttaatgcacc tgaatgttag atagttacta tatgccgcta caaaaaggta
1561 aaacttttta tattttatac attaacttca gccagctatt atataaataa aacattttca
1621 cacaatacaa taagttaact attttatttt ctaatgtgcc tagttctttc cctgcttaat
1681 gaaaagctt
```

## (2) INFORMATION FOR SEQ ID NO:2836:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3958 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2836:

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1 atgacaacct cactagatac agttgagacc tttggtacca catcctacta tgatgacgtg
 61 ggcctgctct gtgaaaaagc tgataccaga gcactgatgg cccagtttgt gcccccgctg
121 tactccctgg tgttcactgt gggcctcttg ggcaatgtgg tggtggtgat gatcctcata
181 aaatacagga ggctccgaat tatgaccaac atctacctgc tcaacctggc catttcggac
241 ctgctcttcc tcgtcaccct tccattctgg atccactatg tcagggggca taactgggtt
301 tttggccatg gcatgtgtaa gctcctctca gggttttatc acacaggctt gtacagcgag
361 atcttttca taatcctgct gacaatcgac aggtacctgg ccattgtcca tgctgtgttt
421 gcccttcgag cccggactgt cacttttggt gtcatcacca gcatcgtcac ctggggcctg
481 gcagtgctag cagctcttcc tgaatttatc ttctatgaga ctgaagagtt gtttgaagag
541 actotttgca gtgctcttta cccagaggat acagtatata gctggaggca tttccacact
601 ctgagaatga ccatcttctg tctcgttctc cctctgctcg ttatggccat ctgctacaca
661 ggaatcatca aaacgctgct gaggtgcccc agtaaaaaaa agtacaaggc catccggctc
721 atttttgtca tcatggcggt gtttttcatt ttctggacac cctacaatgt ggctatcctt
781 ctctcttcct atcaatccat cttatttgga aatgactgtg agcggagcaa gcatctggac
841 ctggtcatgc tggtgacaga ggtgatcgcc tactcccact gctgcatgaa cccggtgatc
901 tacgcctttg ttggagagag gttccggaag tacctgcgcc acttcttcca caggcacttg
961 ctcatgcacc tgggcagata catcccattc cttcctagtg agaagctgga aagaaccagc
1021 tctgtctctc catccacagc agagccggaa ctctctattg tgttttag
1069 tttttcttct tctatcacag ggagaagtga aatgacaacc tcactagata cagttgagac
1129 ctttggtacc acatcctact atgatgacgt gggcctgctc tgtgaaaaag ctgataccag
1189 agcactgatg gcccagtttg tgcccccgct gtactccctg gtgttcactg tgggcctctt
1249 gggcaatgtg gtggtggtga tgatcctcat aaaatacagg aggctccgaa ttatgaccaa
1309 catchacctg ctcaacctgg ccatttcgga cctgctcttc ctcgtcaccc ttccattctg
1369 gatccactat gtcagggggc ataactgggt ttttggccat ggcatgtgta agctcctctc
1429 agggttttat cacacaggct tgtacagcga gatctttttc ataatcctgc tgacaatcga
1489 caggtacctg gccattgtcc atgctgtgtt tgcccttcga gcccggactg tcacttttgg
1549 tgtcatcacc agcatcgtca cctggggcct ggcagtgcta gcagctcttc ctgaatttat
1609 cttctatgag actgaagagt tgtttgaaga gactctttgc agtgctcttt acccagagga
1669 tacagtatat agctggaggc atttccacac tctgagaatg accatcttct gtctcgttct
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1729 ccctctqctc gttatggcca tctgctacac aggaatcatc aaaacgctgc tgaggtgccc
1789 cagtaaaaaa aagtacaagg ccatccggct catttttgtc atcatggcgg tgtttttcat
1849 tttctggaca ccctacaatg tggctatcct tctctctcc tatcaatcca tcttatttgg
1909 aaatqactqt qaqcqqaqca aqcatctgga cctggtcatg ctggtgacag aggtgatcgc
1969 ctactcccac tgctgcatga acccggtgat ctacgccttt gttggagaga ggttccggaa
2029 gtacctgcgc cacttcttcc acaggcactt gctcatgcac ctgggcagat acatcccatt
2089 ccttcctagt gagaagctgg aaagaaccag ctctgtctct ccatccacag cagagccgga
2149 actetetatt gtgttttagg teagatgeag aaaattgeet aaagaggaag gaccaaggag
2209 atgaagcaaa cacattaagc cttccacact cacctctaaa acagtccttc aaacttccag
2269 t
2270 aatcetttte etggeacete tgatateett ttgaaattea tgttaaagaa teeetagget
2330 gctatcacat gtggcatctt tgttgagtac atgaataaat caactggtgt gttttacgga
2390 ggatgattat gcttcattgt gggattgtat ttttcttctt ctatcacagg gagaagtgaa
2450 atgacaacct cactagatac agttgagacc tttggtacca catcctacta tgatgacgtg
2510 ggcctgctct gtgaaaaagc tgataccaga gcactgatgg cccagtttgt gcccccgctg
2570 tactccctgg tgttcactgt gggcctcttg ggcaatgtgg tggtggtgat gatcctcata
2630 aaatacagga ggctccgaat tatgaccaac atctacctgc tcaacctggc catttcggac
2690 ctgctcttcc tcgtcaccct tccattctgg atccactatg tcagggggca taactgggtt
2750 tttggccatg gcatgtgtaa gctcctctca gggttttatc acacaggctt gtacagcgag
2810 atcttttca taatcctgct gacaatcgac aggtacctgg ccattgtcca tgctgtgttt
2870 gcccttcqaq cccqqactqt cacttttggt gtcatcacca gcatcgtcac ctggggcctg
2930 gcagtgctag cagctcttcc tgaatttatc ttctatgaga ctgaagagtt gtttgaagag
2990 actotttgca gtgctcttta cocagaggat acagtatata gctggaggca tttccacact
3050 ctgagaatga ccatcttctg tctcgttctc cctctgctcg ttatggccat ctgctacaca
3110 qqaatcatca aaacqctqct gaggtqcccc agtaaaaaaa agtacaaggc catccggctc
3170 attittgtca tcatggcggt gtttttcatt ttctggacac cctacaatgt ggctatcctt
3230 ctctcttcct atcaatccat cttatttgga aatgactgtg agcggacgaa gcatctggac
3290 ctggtcatgc tggtgacaga ggtgatcgcc tactcccact gctgcatgaa cccggtgatc
3350 tacgcctttg ttggagagag gttccggaag tacctgcgcc acttcttcca caggcacttg
3410 ctcatgcacc tgggcagata catcccattc cttcctagtg agaagctgga aagaaccagc
3470 tetgtetete catecacage agageeggaa etetetattg tgttttaggt agatgeagaa
3530 aattgcctaa agaggaagga ccaaggagat naagcaaaca cattaagcct tccacactca
3590 cctctaaaac agtccttcaa accttccagt gcaacactga agctcttaag acactgaaat
3650 atacacacaq caqtaqcaqt agatgcatgt accctaaggt cattaccaca ggccagggct
3710 gggcagcgta ctcatcatca acctaaaaag cagagctttg cttctctctc taaaatgagt
3770 tacctatatt ttaatqcacc tqaatqttaq atagttacta tatgccgcta caaaaaggta
3830 aaacttttta tattttatac attaacttca gccagctatt atataaataa aacattttca
3890 cacaatacaa taagttaact attttatttt ctaatgtgcc tagttctttc cctgcttaat
3950 gaaaagctt
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- (2) INFORMATION FOR SEQ ID NO:2837:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2961 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2837:
  - 1 tctagagcca aggtcacgga agcccagagg gcatcttgtg gctcgggagt agctctctgc 61 tgtcttctca gctctgctga caatacttga gattttcaga tgtcaccaac caccaagaga 121 gcttgatatg actgtatata gtatagtcat aaagaacctg aacttgacca tatacttatg 181 tcatgtggaa aattctcat agcttcagat agattatatc tggagtgaag aatcctgcca 241 cctatgtatc tggcatagtg tgagtcctca taaatgctta ctgggttgaa gggcaacaaa 301 atagtgaaca gagtgaaaat ccccactaag atcctgggtc cagaaaaaga tgggaaacct 361 gtttagctca cccgtgagcc catagttaaa actctttaga caacaggttt tttccgttta 421 cagagaacaa taatattggg tggtgagcat ctgtgtgggg gttggggtgg gataggggat 481 acggggagag tggagaaaaa gggggcacag ggttaatgtg aagtccagga tccccctcta 541 catttaaagt tggtttaagt tggtttaat taatagcaac tcttaagata atcagaattt 601 tcttaacctt ttagccttac tgttgaaaag ccctgtgatc ttgtacaaat catttgcttc 661 ttggatagta attccttta ttcttatat tttctaacag atcctgtgta gtggggtgag 781 cagagaacaa aaacaaaata atccagtgag aaaagcccgt aaataaactt tcagaccaga 841 gatctattct ctagcttatt ttaagctcaa cttaaaagga agaactgttc tctgattct

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901 ttcgccttca atacacttaa tgatttaact ccaccctcct tcaaaagaaa cagcatttcc
 961 tacttttata ctgtctatat gattgatttg cacagctcat ctggccagaa gagctgagac
1021 atccgttccc ctacaagaaa ctctccccgg taagtaacct ctcagctgct tggcctgtta
1081 gttagcttct gagatgagta aaagacttta caggaaaccc atagaagaca tttggcaaac
1141 accaagtgct catacaatta tcttaaaata taatctttaa qataaggaaa qqqtcacagt
1201 ttggaatgag tttcagacgg ttataacatc aaagatacaa aacatgattg tgagtgaaag
1261 actttaaagg gagcaatagt attttaataa ctaacaatcc ttacctctca aaagaaagat
1321 ttgcagagag atgagtetta getgaaatet tgaaatetta tettetgeta aggagaaeta
1381 aaccetetee agtgagatge ettetgaata tgtgeecaca agaagttgtg tetaagtetg
1441 gttctctttt ttcttttcc tccagacaag agggaagcct aaaaatggtc aaaattaata
1501 ttaaattaca aacgccaaat aaaattttcc tctaatatat cagtttcatg gcacagttag
1561 tatataattc tttatggttc aaaattaaaa atgagctttt ctaggggctt ctctcagctg
1621 cctagtctaa ggtgcaggga gtttgagact cacagggttt aataagagaa aattctcagc
1681 tagagcagct gaacttaaat agactaggca agacagctgg ttataagact aaactaccca
1741 gaatgcatga cattcatctg tggtggcaga cgaaacattt tttattatat tatttcttgg
1801 gtatgtatga caactcttaa ttgtggcaac tcaaactaca aacacaaact tcacaqaaaa
1861 tgtgaggatt ttacaattgg ctgttgtcat ctatgacctt ccctgggact tgggcacccg
1921 gccatttcac tctgactaca tcatgtcacc aaacatctga tggtcttgcc ttttaattct
1981 ctttttgagg actgagaggg agggtagcat ggtagttaag agtgcaggct tcccgcattc
2041 aaaatcggtt gcttactagc tgtgtggctt tgagcaagtt actcaccctc tctgtgcttc
2101 aaggtccttg tctgcaaaat gtgaaaaata tttcctgcct cataaggttg ccctaaggat
2161 taaatgaatg aatgggtatg atgcttagaa cagtgattgg catccagtat gtgccctcga
2221 ggcctcttaa ttattactgg cttgctcata gtgcatgttc tttgtgggct aactctagcg
2281 tcaataaaaa tgttaagact gagttgcagc tgggcatggt ggctcatgcc tgtaatccca
2341 gcattctagg aggctgaggc aggaggatcg cttgagccca ggagttcgag accagcctgg
2401 gcaacatagt gtgatcttgt atctataaaa ataaacaaaa ttagcttggt gtggtggcgc
2461 ctgtagtccc cagccacttg gaggggtgag gtgagaggat tgcttgagcc cgggatgatc
2521 caggetgeag tgagecatga tegtgecaet geactecage etgggegaea gagtgagaee
2581 ctgtctcaca acaacaacag caacaaaaag gctgagctgc accatgcttg acccagtttc
2641 ttaaaattgt tgtcaaagct tcattcactc catggtgcta tagagcacaa gattttattt
2701 ggtgagatgg tgctttcatg aattccccca acagagccaa gctctccatc tagtggacag
2761 ggaagctagc agcaaacctt cccttcacta caaaacttca ttgcttggcc aaaaagagag
2821 ttaattcaat gtagacatct atgtaggcaa ttaaaaacct attgatgtat aaaacagttt
2881 gcattcatgg agggcaacta aatacattct aggactttat aaaagatcac tttttattta
2941 tgcacagggt ggaacaagat g
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- (2) INFORMATION FOR SEQ ID NO:2838:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3383 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2838:
- 1 agaagagctg agacatccgt tcccctacaa gaaactctcc ccgggtggaa caagatggat 61 tatcaagtgt caagtccaat ctatgacatc aattattata catcggagcc ctgccaaaaa 121 atcaatgtga agcaaatcgc agcccgcctc ctgcctccgc tctactcact ggtgttcatc 181 tttggttttg tgggcaacat gctggtcatc ctcatcctga taaactgcaa aaggctgaag 241 agcatgactg acatctacct gctcaacctg gccatctctg acctgttttt ccttcttact 301 gtccccttct gggctcacta tgctgccqcc cagtgggact ttggaaatac aatgtgtcaa 361 ctcttgacag ggctctattt tataggcttc ttctctggaa tcttcttcat catcctcctg 421 acaatcgata ggtacctggc tgtcgtccat gctgtgtttg ctttaaaagc caggacggtc 481 acctttgggg tggtgacaag tgtgatcact tgggtggtgg ctgtgtttgc gtctctcca 541 ggaatcatct ttaccagatc tcaaaaagaa ggtcttcatt acacctgcag ctctcatttt 601 ccatacagtc agtatcaatt ctggaagaat ttccagacat taaagatagt catcttgggg 661 ctggtcctgc cgctgcttgt catggtcatc tgctactcgg gaatcctaaa aactctgctt 721 cggtgtcgaa atgagaagaa gaggcacagg gctgtgaggc ttatcttcac catcatgatt 781 gtttattttc tcttctgggc tccctacaac attgtccttc tcctgaacac cttccaggaa 841 ttctttggcc tgaataattg cagtagctct aacaggttgg accaagctat gcaggtgaca 901 gagactettg ggatgacgca etgetgeate aaccecatea tetatgeett tgteggggag 961 aagttcagaa actacctctt agtcttcttc caaaagcaca ttgccaaacg cttctgcaaa 1021 tgctgttcta ttttccagca agaggctccc gagcgagcaa gctcagttta cacccgatcc 1081 actggggage aggaaatate tgtgggettg tgacacggae tcaagtggge tggtgaccca

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1141 qtcaqaqttq tqcacatqqc ttaqttttca tacacaqcct qqqctqqqqq tqqqqqqa
1201 gaggtctttt ttaaaaggaa gttactgtta tagagggtct aagattcatc catttatttg
1261 gcatctgttt aaagtagatt agatctttta agcccatcaa ttatagaaag ccaaatcaaa
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3361 aaaaaaaaaa aaaaaaaaaa aaa
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### (2) INFORMATION FOR SEQ ID NO:2839:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 143068 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2839:
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cycaaaaacc	uauaacataa	COCCECCAA	TTAAMAAMAA	-+-+	4
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106081 aaactgagga 106141 gtccgaaggg 106201 gcagtttgaa					
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## (2) INFORMATION FOR SEQ ID NO: 2841:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5133 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(x	i) SEQUENCE	DESCRIPTION	N: SEQ ID NO	0:2841:		
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3601	agtccaggcc	tgtgaggtgc	agagtgccca	gaactggact	caggatgccc	agggccactc
3661	tgcctctgcc	tgcattctgc	cgtgtgccct	cgggcgagtc	actgcctctc	cctggccctc
3721	agtttcccta	tctcgaacat	ggaactcatt	cctgaatgtc	tcctttgcag	gctcataggg
3/81	aagacctgct	gagggaccag	ccaagagggc	tgcaaaagtg	agggcttgtc	attaccagac
3841	ggttcaccag	cctctcttgg	ttccttcctt	ggaagagaat	gtctgatcta	aatgtggaga
3901	aactgtagtc	tcaggaccta	gggatgttct	ggccctcacc	cctgccctgg	gatgtccaca
3961	gatgcctcca	cccccagaa	cctgtccttg	cacactcccc	tgcactggag	tccagtctct
4021	tctgctggca	gaaagcaaat	gtgacctgtg	tcactacgtg	actgtggcac	acgccttgtt
4081	cttggccaaa	gaccaaattc	cttggcatgc	cttccagcac	cctgcaaaat	gagaccctcg
4141	tggccttccc	cagcctcttc	tagagccgtg	atgcctccct	gttgaagctc	tggtgacacc
4201	agcctttctc	ccaggccagg	ctccttcctg	tcttcctgca	ttcacccaga	cagctccctc
4261	tgcctgaacc	ttccatctcg	cccacccctc	cttccttgac	cagcagatcc	cagctcacgt
4321	cacacacttg	gttgggtcct	cacatctttc	acacttccac	caccctqcac	tactccctca
4381	aagcacacgt	catgtttctt	catccggcag	cctggatgtt	ttttccctgt	ttaatgattg
4441	acgtacttag	cagctatctc	tcagtgaact	gtgagggtaa	aggctatact	tgtcttgttc
4501	accttgggat	gacgccgcat	gatatgtcag	ggcgtgggac	atctagtagg	tgcttgacat
4561	aatttcactg	aattaatgac	agagccagtg	ggaagataca	gaaaaaqagg	accadaacta
4621	ggcgcggtgg	ttcacgcctg	taatcccagc	actttgggag	gccaaggagg	gtggatcacc
4681	tgaggtcagg	agttagaggc	cagcctggcg	aaaccccatc	tctactaaaa	atacaaaatc
4741	caggcgtggt	ggcacacacc	tgtagtccca	gctactcagg	aggttgaggt	aggagaattg

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4801 cttgaacctg ggaggtggag gttgcagtga gccaagattg cgccattgca ctccagcctg
 4861 ggcaacacag cgagactccg tctcaaggaa aaaataaaaa taaaaagcgg gcacgggccc
 4921 ggacatecee accettggag getgtettet caggetetge cetgecetag etceacacee
 4981 teteccagga eccateacge etgtgcagtg geceecacag aaagactgag etcaaggtgg
 5041 gaaccacgtc tgctaacttg gagccccagt gccaagcaca gtgcctgcat gtatttatcc
 5101 aataaatgtg aaattctgtc caaaaaaaaa aaa
 (2) INFORMATION FOR SEQ ID NO:2842:
    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 1388 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2842:
    1 ggatccagaa gggtcattca atcagttctc agtcttatca ggtctaagtt cctttcttat
   61 caggtcctaa aggcctaatc ttatcattgt gacaaagata actgtagagt ctgttaaact
  121 tttttttaa taacatgaag attatgattt atagctgaat ttctcccttt tattccaatt
  181 caacaatttt catggctttt tgtgtttgtt ttgttctgga catatttaca gaaaattacc
  241 tgaagagttc caacctgagg cetectcatg gatgggtcaa acgtgacatc atttgttgtt
  301 gaggaaccca cgaacatctc aactggcagg aacgcctcag tcgggaatgc acatcggcaa
  361 atccccatcg tgcactgggt cattatgagc atctccccag tggggtttgt tgagaatggg
  421 atteteetet ggtteetgtg etteeggatg agaagaaate cetteaetgt etacateace
  481 cacctgtcta tcgcagacat ctcactgctc ttctgtattt tcatcttgtc tatcgactat
  541 gctttagatt atgagctttc ttctggccat tactacacaa ttgtcacatt atcagtgact
  601 tttctgtttg gctacaacac gggcctctat ctgctgacgg ccattagtgt ggagaggtgc
  661 ctgtcagtcc tttaccccat ctggtaccga tgccatcgcc ccaagtacca gtcggcattg
  721 gtctgtgccc ttctgtgggc tctttcttgc ttggtgacca ccatggagta tgtcatgtgc
  781 atcgacagag aagaagagag tcactctcgg aatgactgcc gagcagtcat catctttata
  841 gccatcctga gcttcctggt cttcacgccc ctcatgctgg tgtccagcac catcttggtc
  901 gtgaagatcc ggaagaacac gtgggcttcc cattcctcca agctttacat agtcatcatg
  961 gtcaccatca ttatattcct catcttcgct atgcccatga gactccttta cctgctgtac
 1021 tatgagtatt ggtcgacctt tgggaaccta caccacattt ccctgctctt ctccacaatc
 1081 aacagtagcg ccaaccettt catttacttc tttgtgggaa gcagtaagaa gaagagattc
 1141 aaggagteet taaaagttgt tetgaceagg gettteaaag atgaaatgea aceteggege
 1201 cagaaagaca attgtaatac ggtcacagtt gagactgtcg tctaagaact gtgagggaag
1261 ttgtggataa aaatggtgga acacaggtca tttttagttt gtgcttggaa tatgacttaa
 1321 gtatctccta aatgtgatac agaagaacat ctcatcccat atgcatgaga tactaattaa
1381 tgatgaaa
(2) INFORMATION FOR SEQ ID NO:2843:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 393 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2843:
   1 gagcagtgcc cagcttgtcg cagatattga agccgtgtaa aataaatgcc tttgattgtt
  61 cacactttaa gcaatattgg tacaatatta aacccattgt cccaggcact ccctccctt
 121 actgcttatg gcacttcatg tattaaaaaa tgacagtggc agcattgccc agacatgcgt
 181 tttgtcatca agtcttaatg cagtccacct ggtccctcag gcaaatgaat ggaggcacag
 241 aagatgaaat gattttcaaa atgccattag gaaagctcag gccagaactg gaaatgggtc
 301 ccgcacaggg cactcggcca ctcttgcctg gccatctcct ttttggcact aagcacacaa
 361 tgatatagaa tgaatggtta tcactgggga tcc
(2) INFORMATION FOR SEO ID NO: 2844:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1388 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2844:
   1 ggatccagaa gggtcattca atcagttctc agtcttatca ggtctaagtt cctttcttat
  61 caggtcctaa aggcctaatc ttatcattgt gacaaagata actgtagagt ctgttaaact
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121 ttttttttaa taacatgaag attatgattt atagctgaat ttctcccttt tattccaatt
 181 caacaatttt catggctttt tgtgtttgtt ttgttctgga catatttaca gaaaattacc
 241 tgaagagttc caacctgagg cctcctcatg gatgggtcaa acgtgacatc atttgttgtt
 301 gaggaaccca cgaacatctc aactggcagg aacgcctcag tcgggaatgc acatcggcaa
 361 atccccatcg tgcactgggt cattatgagc atctccccag tggggtttgt tgagaatggg
 421 atteteetet ggtteetgtg etteeggatg agaagaaate eetteaetgt etacateaee
 481 cacctgtcta tcgcagacat ctcactgctc ttctgtattt tcatcttgtc tatcgactat
 541 gctttagatt atgagctttc ttctggccat tactacacaa ttgtcacatt atcagtgact
 601 tttctgtttg gctacaacac gggcctctat ctgctgacgg ccattagtgt ggagaggtgc
 661 ctgtcagtcc tttaccccat ctggtaccga tgccatcgcc ccaagtacca gtcggcattg
 721 gtctgtgccc ttctgtgggc tctttcttgc ttggtgacca ccatggagta tgtcatgtgc
 781 atcgacagag aagaagagag tcactctcgg aatgactgcc gagcagtcat catctttata
 841 gccatcctga gcttcctggt cttcacgccc ctcatgctgg tgtccagcac catcttggtc
 901 gtgaagatcc ggaagaacac gtgggcttcc cattcctcca agctttacat agtcatcatg
 961 gtcaccatca ttatattcct catcttcgct atgcccatga gactccttta cctgctgtac
1021 tatgagtatt ggtcgacctt tgggaaccta caccacattt ccctgctctt ctccacaatc
1081 aacagtagcg ccaaccettt catttacttc tttgtgggaa gcagtaagaa gaagagattc
1141 aaggagteet taaaagttgt tetgaceagg gettteaaag atgaaatgea aceteggege
1201 cagaaagaca attgtaatac ggtcacagtt gagactgtcg tctaagaact gtgagggaag
1261 ttgtggataa aaatggtgga acacaggtca tttttagttt gtgcttggaa tatgacttaa
1321 gtatctccta aatgtgatac agaagaacat ctcatcccat atgcatgaga tactaattaa
1381 tgatgaaa
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## (2) INFORMATION FOR SEQ ID NO:2845:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3169 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2845:

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1 ggatccagaa gggtcattca atcagttctc agtcttatca ggtctaagtt cctttcttat
  61 caggtcctaa aggcctaatc ttatcattgt gacaaagata actgtagagt ctgttaaact
 121 ttttttttaa taacatgaag attatgattt atagctgaat ttctcccttt tattccaatt
 181 caacaatttt catggctttt tgtgtttgtt ttgttctgga catatttaca gaaaattacc
 241 tgaagagttc caacctgagg cetecteatg gatgggteaa aegtgaeate atttgttgtt
 301 gaggaaccca cgaacatctc aactggcagg aacgcctcag tcgggaatgc acatcggcaa
 361 atccccatcg tgcactgggt cattatgagc atctccccag tggggtttgt tgagaatggg
 421 atteteetet ggtteetgtg etteeggatg agaagaaate cetteaetgt etacateace
 481 cacctgtcta tcgcagacat ctcactgctc ttctgtattt tcatcttgtc tatcgactat
 541 gctttagatt atgagctttc ttctggccat tactacacaa ttgtcacatt atcagtgact
 601 tttctgtttg gctacaacac gggcctctat ctgctgacgg ccattagtgt ggagaggtgc
 661 ctgtcagtcc tttaccccat ctggtaccga tgccatcgcc ccaagtacca gtcggcattg
 721 gtctgtgccc ttctgtgggc tctttcttgc ttggtgacca ccatggagta tgtcatgtgc
 781 atcgacagag aagaagagag tcactctcgg aatgactgcc gagcagtcat catctttata
 841 gccatcctga gcttcctggt cttcacgccc ctcatgctgg tgtccagcac catcttggtc
 901 gtgaagatcc ggaagaacac gtgggcttcc cattcctcca agctttacat agtcatcatg
 961 gtcaccatca ttatattcct catcttcgct atgcccatga gactccttta cctgctgtac
1021 tatgagtatt ggtcgacctt tgggaaccta caccacattt ccctgctctt ctccacaatc
1081 aacagtagcg ccaacccttt catttacttc tttgtgggaa gcagtaagaa gaagagattc
1141 aaggagteet taaaagttgt tetgaceagg gettteaaag atgaaatgea aceteggege
1201 cagaaagaca attgtaatac ggtcacagtt gagactgtcg tctaagaact gtgagggaag
1261 ttgtggataa aaatggtgga acacaggtca tttttagttt gtgcttggaa tatgacttaa
1321 gtatctccta aatgtgatac agaagaacat ctcatcccat atgcatgaga tactaattaa
1381 tgatgaaa
1389 gagcagtgcc cagcttgtcg cagatattga agccgtgtaa aataaatgcc tttgattgtt
1449 cacactttaa gcaatattgg tacaatatta aacccattgt cccaggcact ccctctctt
1509 actgcttatg gcacttcatg tattaaaaaa tgacagtggc agcattgccc agacatgcgt
1569 tttgtcatca agtcttaatg cagtccacct ggtccctcag gcaaatgaat ggaggcacag
1629 aagatgaaat gattttcaaa atgccattag gaaagctcag gccagaactg gaaatgggtc
1689 ccgcacaggg cactcggcca ctcttgcctg gccatctcct ttttggcact aagcacacaa
1749 tgatatagaa tgaatggtta tcactgggga tcc
1782 ggatccagaa gggtcattca atcagttctc agtcttatca ggtctaagtt cctttcttat
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1842 caggtcctaa aggcctaatc ttatcattgt gacaaagata actgtagagt ctgttaaact
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1962 caacaatttt catggctttt tgtgtttgtt ttgttctgga catatttaca gaaaattacc
2022 tgaagagttc caacctgagg cctcctcatg gatgggtcaa acgtgacatc atttgttgtt
2082 gaggaaccca cgaacatctc aactggcagg aacgcctcag tcgggaatgc acatcggcaa
2142 atccccatcg tgcactgggt cattatgagc atctccccag tggggtttgt tgagaatggg
2202 atteteetet ggtteetgtg etteeggatg agaagaaate cetteaetgt etacateace
2262 cacctgtcta tcgcagacat ctcactgctc ttctgtattt tcatcttgtc tatcgactat
2322 gctttagatt atgagettte ttetggeeat tactacacaa ttgtcacatt ateagtgaet
2382 tttctgtttg gctacaacac gggcctctat ctgctgacgg ccattagtgt ggagaggtgc
2442 ctgtcagtcc tttaccccat ctggtaccga tgccatcgcc ccaagtacca gtcggcattg
2502 gtctgtgccc ttctgtgggc tctttcttgc ttggtgacca ccatggagta tgtcatgtgc
2562 atcgacagag aagaagagag tcactctcgg aatgactgcc gagcagtcat catctttata
2622 gccatcctga gcttcctggt cttcacgccc ctcatgctgg tgtccagcac catcttggtc
2682 gtgaagatcc ggaagaacac gtgggcttcc cattectcca agetttacat agtcatcatg
2742 gtcaccatca ttatattcct catcttcgct atgcccatga gactccttta cctgctgtac
2802 tatgagtatt ggtcgacctt tgggaaccta caccacattt ccctgctctt ctccacaatc
2862 aacagtagcg ccaacccttt catttacttc tttgtgggaa gcagtaagaa gaagagattc
2922 aaggagteet taaaagttgt tetgaceagg gettteaaag atgaaatgea aceteggege
2982 cagaaagaca attgtaatac ggtcacagtt gagactgtcg tctaagaact gtgagggaag
3042 ttgtggataa aaatggtgga acacaggtca tttttagttt gtgcttggaa tatgacttaa
3102 gtatctccta aatgtgatac agaagaacat ctcatcccat atgcatgaga tactaattaa
3162 tgatgaaa
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- (2) INFORMATION FOR SEQ ID NO:2846:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 3585 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2846:
- 1 gggcccagag aaagagctgt ccccggggcc ttggggacag ggtgacagcc acccagagat 61 catggagaag gggacgtaag gaagacctca cagaggagtc atcctgcgac tgtgttggtt 121 gggtccttca ggaagcagag tcccaggagt tggaagcata agaggaatac tgcgggcaat 181 gcctgagaaa gataacaggg accgggagca ggagtgagtt gggcagggga aggatcaggc 241 ccacaatgcc aggctcacac ctgcagagga gggaagaaga agaagggcct cacatcagcc 301 cagcggggga tgttacgccc acagacgccc cggggctcag ttactgtcta agtgttagaa 361 ataaattttc ggtgccacaa aagaaatagc actcagatta aatgttccca gcaaggcaat 421 tttacttcta tagaagggtg catctcacag atggagcaat ggcaagagca cacctgaaca 481 agggaaggga aggggttttt atccctaagg caggtagccc ctacagctgt gttgttcccc 541 tattggctag ggttggacca caccgtctga gctaattgtt actggctatt ttaaagagag 601 caggggtaag agccggattg gcagggtaag tagtttggca ggaaggacgg tcacagaaca 661 ggtgactcag gatgactcag gtcagagcag gtgaccagtg gtgactcagt tcggagcagg 721 tgatagaagc taggagggg ttgtttactg aaactagggg caaggagacg aagagaacat 781 gaaagttaaa ctttaagatg aagaacaaag ctgaacatac tgatgcattg gatctttgga 841 gaggatetea gaacteattg taettaattt acaggetaaa acettagaag aggaatttat 901 tatatcctac acaagactcc agggaagcac atggccttgg actgaaggct ggcatctgga 961 agetgtcage caccageace ttetgcagea ggtacetget etetaagagg gaggeetggg 1021 tggtgcacct ccagagctgc ccaggctggg cctcaaggaa gaaaaagatt ttcatttgtc 1081 agaggcggaa gggagaggtg gagggaacag cacagcagcg gcccaggggc agggaagcac 1141 aggaccatta gggagacacg agaaagccca tttgtctaga acagaggatt caagcagtgc 1201 accaaggaaa atgagggcca ggccaatgtg ctggagtggc tttgttcttg gctgagggtt 1261 ttgggtagtg ccaaagcgta aggtaagccc tgctttccag aagaatctag cagagtgtgg 1321 agcccagatg ggactggaag gcctgggagg ggtcaggtgg ccacagggac gggccacagc 1381 cagtggtgca ggcaagaaga caatggccat ccatggtggc tcacacctgg aatcccagcc 1441 cattgggagg tcgaggcagg tggatcacct gaggtcagga gttcgagacc agcctggtca 1501 acatggtgaa accetgtete taataaaatt ataaaaatta geegggegtg gtggtgggta 1561 cctgtaatct cagctactca ggaggctggg tcaggagaat cgcttgaacc caggaggcgg 1621 aggttacagt gagctgagat agcaccattg cattccagcc tggacaacaa aagcgagact 1681 ctgtctcaaa aaaaaaaaa aattagccag gcgtggtggt gggtgcctgt cgtcctcggg 1741 aggctgaggc atgagaatca ctccgggagg cagaggttgc aatgaaccaa gatcacacca 1801 ctgcactcca gcctgggtga cagagcaaga ctctgtctaa aaaaaaaaa aagacagaag

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1861 gatgtcagca tctgatgctg cctgtcacct tgaccctgag gatgccagtc acagctccat
1921 taactgggac ctaggaaaat gagtcatcct tggtcatgca catttcaaat ggtggcttaa
1981 tatggaagcc acacttggga tctgttgtct cctccagcat ggtagaagat gcctgaaaag
2101 cctcaggctt ggggtcatgg gacaaagccc aggctgaatg ccgcccttcc atctccctcc
2161 tcctgagaca ggggcagcag ggcacactag tgtccaggag cagcttatga ggccccttca
2221 ccctccgatc ctccaaaact ggcagacccc accttcttcg gtgtgacccc agagctctga
2281 gcacageceg tteetteege etgeeggeee eccacecagg eccaeeceaa ecttateete
2341 cactgetttt cagaggagte tggccaacac aaateetett gtttgtttgt etgtetgtet
2401 gctgctccta gtctctgcct ctcccagtct ctcagcttcc gtttctttct taaactttct
2461 ctcagtctct gaggtctcga aatcacgagg cttcgacccc tgtggaccag atgcccagct
2521 agtggccttt ctccagcccc tcagatggca cagaactaca aaccccagca tgcactctgg
2581 cctgaagtgc ctggagagtg ctggtgtacc ccacctgcat tctgggaact gtagtttccc
2641 tagtccccca tgctcccacc agggcatcaa gctcttccct ggccggctga ccctgcctca
2701 gccctagtct ctctgctgac ctgcggcccc gggaagcgtg cgtcactgaa tgacagggtg
2761 ggggtggagg cactggaagg cagcttcctg ctcttttgtg tcccccactt gagtcatggg
2821 ggtgtggggg ttccaggaaa ttggggctgg gaggggaagg gataccctaa tgtcagactc
2881 aaggacaaaa agtcactaca tccttgctgg gcctctatcc ccaagaaccc aaaaggactc
2941 aagggtgggg atccaggagt tcttgtatgt atggggggag gtgaaggaga gaacctgcat
3001 gaccctagag gtccctgtgg tcactgagag tgtgggctgc catcccctgc tacagaaacg
3061 gtgctcacct tctgcccaac cctccaggga aaggcacaca ggggtgaggc cgaaccttcc
3121 gtctggtgcc acatcacaga aggaccttta tgaccccctg gtggctctac cctgccactc
3181 cccaatgccc cagcccccat gctgcagccc cagggctctg ctggacacct gggctcccac
3241 ttatcagect cagteeteac ageggaacce aggegteegg ecceecace tteaggecag
3301 cgggcgtgga gctgaggctt tagagcctcc cagccgggct tgttcctgtc ccattgtgta
3361 tgggataggg gcggggcgag ggccagcact ggagagcccc ctcccactgc ccctctct
3421 cggtcccctc cctcttccta aggaaaaggc cagggctctg ctggagcagg cagcagagtg
3481 gacgcacagt aacatgggca acttgaagag cgtggcccag gagcctgggc caccctgcgg
3541 cctggggctg gggctgggcc ttgggctgtg cggcaagcag ggccc
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- (2) INFORMATION FOR SEQ ID NO:2847:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 23142 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2847:
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121	81	gcacgcctat	agtcctagct	actcaggagg	ctaggcggga	gaattgcttg	aacctgggag
122	41	gtggaggttg	cagtgagccg	agatcacqcc	actgcactcc	agcctgggtg	acagagcaag
123	01	aattctactt	aaaataaaat	acaaataaat	aaaataaaac	tgtcaaacag	caaagcaaat
123	61	taaactgccc	tttaacatct	gtgcagttca	atgtatgtta	attttatccc	aaatttttaa
124	21	caaatctagg	aatacagctc	acagaaaatg	gggtatattc	actaaaaata	aggaatattt
124	81	atagcaaatt	tgtttgtaat	accccacact	ggaaacaatt	caaatgacca	tcgacaaata
125	41	ctgataaatt	gtggtatatt	caagtgccat	atcgcactaa	gtgtgaacga	aacacaacca
T26	υI	cacacaacag	tgcaggtgaa	tctgaaaaaa	tgtgaagaga	agaaaaagcc	agaccaaaga

126	061	atacatactg	tactacaggg	ttcactttat	ataaagttca	gaaacaggca	gaactaatcc
127	21	acggagttag	aaattaggag	aggagttagt	cactgggatg	ggggtggcag	tgacaggaag
127	81	aaggcacgaa	gttggcttct	aggatgcggg	taatgtttgt	ttgtttgttt	gtttgtttgt
			gagctggagt				
			caacctccgc				
129	61	tagctgggat	tacaggtgcc	cgccaccatg	gccagctaat	ttttgtgttt	ttagtagaga
130	21	cgcgtttcac	catgttggcc	aggctggtct	tgaatccctg	acctcagcct	cccaaagtgc
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			acttgtgttg				
132	61	ttgctaactc	tggcgcactt	gggaaccagc	acccagaggc	atctgcagtt	gagcaccaga
133	321	tgcagttcct	tccagcttcc	ttccccctgg	gaggtccgct	tgatgccact	tcttcatggc
133	881	agcacaaaca	aggccatggt	cttctgagga	gggcaacctg	cacaatgtct	gctagtgacc
134	41	aggacactgc	tgaaggaact	gagagtttgt	ccacccatga	aatccactaa	aacaggaaag
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137	41	aagactgagg	tcatgttttg	gaaagtccag	gccggaggat	cgcttgagcc	caggagttca
138	01	aggccagact	gaacaacaca	gcgagactcc	atctcttcag	aaaatttaaa	aattaaccaa
138	01	gagtggtggc	acgcacctat	agatctagct	actaggaagg	cagaaaaatc	ccttaagccc
			ggttacagtg				
1.40	/OI	gcaagaccca	tatctaaaaa	caatactact	acttacgtca	atattgttgt	attgacctgg
140	Λ1	agggatgtet	gcaataaatt	attgattaaa	accaaggaag	tacagtatgg	taccactttt
141	61	acttaaaaaa	aaactataaa	tatgcacgtg	cacgtaagtt	caaggaaaaa	gggctggaag
141	21	gttaacacct	gtgaatggcg	catatgcccg	gaggaagatg	gggtggtctt	tgtcttatca
1/2	Q1	aacaaataaa	ttctgtaatg	catttica	aaaacatcag	atcgcttttg	aaattttcaa
142	41	cttctatata	aattaagtga	caaaccaaca	acaacgagga	tcagctggta	cagttttaaa
			gtttgaaatg tgccctgatg				
144	61	accacaacto	agttgggtga	gagatyteeg	gagetagaga	agetestas	tttaaaaaa
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151	81	tgggccaggg	cgacgagctg	tgcggccagg	aggaggcctt	ccgaggctgg	gcccaggctg
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195	61	ggcgacagag	ccagactctg	tctcaaaaaa	aaaaaaaaa	tattctcctg	tctcagcctc
196	21	ctgagtagct	gggattacag	gcacccacca	ccacgcccag	ctaatttttg	tatttttagt
196	81	agagacggtg	tttcactatg	ttggccaggc	tggtctcgag	ctcctgacct	cacaatcctc
197	41	ccacctccgc	ctcccaaagt	cttgggatta	caggtgtgag	ccaccgcgcc	cggaccgagg
198	01	gtgaaggatt	ttaagagacc	cttccttcat	gctgtgtcca	gaagtcttgc	ccgctctcgc
198	61	agccaggaac	caaaagtcct	ggtaggactg	agaacagttc	ctaggctgcc	atcagctggg
199	21	cctggtgatt	caaatccacc	caggtggcta	aactacaaat	aaaccgtacc	catctactga
199	81	acataaacta	aataccacta	ttaaggatac	ttaaaataaa	cacacttagt	gaacccatta
200	41	tgaactgaaa	gtgtctttca	cccttcccac	gttttctaaa	tcccctgagt	catctaagta
201	UI	ttcttcaatc	caaaatgaac	tatatttcct	ttggtgcaat	ctccagaaac	cacagatcca
201	bΙ	aggagtttca	gcaagtagag	ttgttttttg	ttttttgttt	tttttttaat	tttttttga
202	Z I	gatgggaaga	acttgggtcc	tccttgctcc	acccaccctg	catggtgaga	atggtggagc
202	٩٦	aggaaaggca	aaggggacct	gatggagtgt	ctctcctgcc	agggctccct	ccttccggct
203	4 I 0 1	gecacccgat	cccagcttgc	cctgcatcct	ggtgggtcca	ggcactggca	ttgccccctt
204	ΟŢ	ccyyyyattC	tggcaggagc	ggetgeatga	cattgagage	aaaggtgagg	ctggtgacta

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20461 aaggactgcc tgaagggagt cacacaatct agggacagag gggtggggct ggaaggcagg
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22561 tggattacag ttttttttt ttgttttttt ttttttgaaa cggagtctcc ctctgccgcc
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22981 tgaccctgca ctctgaaaac atggtttcca gccagtctgg gctgctcccc cgtgcagttc
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23101 aaacaagagt cacagagatg tgcaacagcc atgagcaagc tt
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## (2) INFORMATION FOR SEQ ID NO:2848:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3690 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2848:
- 1 cagagtggac gcacagtaac atgggcaact tgaagaggt ggcccaggag cctgggcac 61 cctgcggcct ggggctgggg ctgggccttg ggctgtgcgg caagcagggc ccagcaccc 121 cggccctga gcccagcag gccccagcat ccctactccc accagcgca gaacacagcc 181 ccccgagctc cccgctaacc cagccccag aggggcccaa gttcctcgt gtgaagaact 241 gggaggtggg gagcatcacc tatgacaccc tcagcgcca ggcgcagcag gatgggccct 301 gcacccaag acgctgcctg ggctccctgg tatttccacg gaaactacag ggccggccct 361 cccccggccc cccggccct gagcagctgc tgagtcaggc ccgggacttc atcaaccagt 421 actacagctc cattaagagg agcggctcc aggcccacga acagcggctt caagaggtgg 481 aagccgaggt ggcagccac ggcacctacc agcttaggga gagcgagctg gtgttcgggg

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2281 acaggcggaa gatgttccag gctacaatcc gctcagtgga aaacctgcaa agcagcaagt
2341 ccacgagggc caccatcctg gtgcgcctgg acaccggagg ccaggagggg ctgcagtacc
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2581 cgctgcgcca ggctctcacc ttcttcctgg acatcacctc cccacccagc cctcagctct
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2761 tgctggagca gttcccgtcg gtggcgctgc ctgccccact gctcctcacc cagctgcctc
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3541 gcacccagag cttttccttg caggagcgtc agttgcgggg cgcagtgccc tgggcgttcg
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3661 gggagagcgg ctgcccgact caggtccgcc
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## (2) INFORMATION FOR SEQ ID NO:2849:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 30417 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2849:
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121	gggtccttca	a ggaagcagag	g tcccaggagi	t tggaagcata	agaggaatac	tacaaacaat
181	gcctgagaaa	a gataacaggo	g accgggagca	a ggagtgagtt	gggcagggga	aggatcaggc
241	ccacaatgc	c aggeteacad	c ctgcagagga	a gggaagaaga	agaagggcct	cacatcagcc
301	cagcggggg	a tgttacgcco	c acagacgcc	cggggctcaq	ttactqtcta	agtgttagaa
301	ataaatttt	c ggtgccacaa	a aagaaatago	c actcagatta	aatgttccca	gcaaggcaat
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481	agggaaggga	aggggtttt	atccctaag	g caggtagccc	ctacagctgt	gttgttcccc
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701	ggtgactcag	, gatgactcaç	, gtcagagcag	, gtgaccagtg	gtgactcagt	tcggagcagg
721	tgatagaago	: taggagggg	, ttgtttactg	, aaactagggg	caaggagacg	aagagaacat
781	gaaagttaaa	ctttaagato	, aagaacaaag	, ctgaacatac	tgatgcattg	gatctttgga
001	gaggatetea	gaactcattg	, tacttaattt	acaggctaaa	accttagaag	aggaatttat
901	tatatectae	acaagactco	: agggaagcac	: atggccttgg	actgaaggct	ggcatctgga
1021	agetgteage	caccagcacc	: ttctgcagca	ggtacctgct	ctctaagagg	gaggcctggg
1021	Lggtgcacct	ccagagetge	: ccaggctggg	cctcaaggaa	gaaaaagatt	ttcatttgtc
11/1	agaggcggaa	gggagaggtg	gagggaacag	cacagcagcg	gcccaggggc	agggaagcac
1201	aggaccatta	gggagacacg	agaaagccca	tttgtctaga	acagaggatt	caagcagtgc
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(2) INFORMATION FOR SEQ ID NO:2850:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1872 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
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(2) INFORMATION FOR SEQ ID NO:2851:
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     (C) STRANDEDNESS: single
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(2) INFORMATION FOR SEQ ID NO:2852:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1719 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2852:
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- (2) INFORMATION FOR SEO ID NO: 2854:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1578 base pairs

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(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2854:
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# (2) INFORMATION FOR SEQ ID NO:2855:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 13611 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2855:
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13594 attctattta taaatcac
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## (2) INFORMATION FOR SEQ ID NO:2856:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12461 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2856:

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- (2) INFORMATION FOR SEQ ID NO:2857:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1251 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2857:
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  - 121 agetetecae cacegeegeg tgegeetgea gaegeteege tegetgeett eteteetgge
  - 181 aggcgctgcc ttttctcccc gttaaagggc acttgggctg aaggatcgct ttgagatctg

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  901 tetttteatg atcccaaget gaaaggcaag ceetceagag agegttatgt gacccacaae
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 1141 tececeaace atetteactg gettecatea gtggtaactg etttggtete ttettteate
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(2) INFORMATION FOR SEQ ID NO: 2858:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1166 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2858:
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  121 aagggcactt gggctgaagg atcgctttga gatctgagga acccgcagcg ctttgaggga
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  241 cttttttca gaatggatta tttgctcatg attttctctc tgctgtttgt ggcttgccaa
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  541 ttacttccca caaaggcaac agaccgtgag aatagatgcc aatgtgctag ccaaaaagac
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1081 ccatcagtgg taactgcttt ggtctcttct ttcatctggg gatgacaatg gacctctcag
1141 cagaaacaca cagtcacatt cgaattc
(2) INFORMATION FOR SEQ ID NO:2859:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 14879 base pairs
     (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2859:
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  61 tttccagcat tcaagtgtag cctcaaaagc aagaataggc caggagtggt ggctcacgct
 121 gtaatccaca gcactgtggg aggccaaggt aagaggattg cttgaggcca ggatttcaag
 181 accagectag geaacatagt gagateeeta tetetaegaa aaaatttaa aaettagetg
 241 ggcatggtgc ttgagcctgt tgtcccagct actcaggagg tgaagtagga gtgtcacttg
 301 agcccaggag gttgaggctg cagtgagcta taactgcacc actgcactcc agccttggag
 361 acagagtgag accctgtccc caaaaaaatt aaaattgaga aaaaaaaaa ggcaagaaca
 421 gccacagcaa actttctatt ggggaaaaaa aaaaatcctc ctctttacat ctctcccttc
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 541 ctgaggggtg gggtggggct atgaagctat ccttcatatt cactcctttg tccagctctt
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4861 gggggaggca	gtggatccca	cacaagcctg	atacccada	attonnaatt	cagiggagaa
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9241	. catctttca	tgatcccaag	ctgaaaggca	agccctccag	agagcgttat	gtgacccaca
9301	. accgagcaca	ttggtgacag	accttcgggg	cctgtctgaa	gccatagcct	ccacggagag
9361	ccctgtggcc	gactctgcac	tctccaccct	ggctgggatc	agagcaggag	catcctctgc
9421	tggttcctga	ctggcaaagg	accagcgtcc	tcgttcaaaa	cattccaaga	aaggttaagg
9481	agttcccca	accatcttca	ctggcttcca	tcagtggtaa	ctgctttggt	ctcttcttc
9541	atctggggat	gacaatggac	ctctcagcag	aaacacacag	tcacattcga	attcgggtgg
9661	catcctccgg	agagagagag	aggaaggaga	ttccacacag	gggtggagtt	tctgacgaag
9721	gtcctaaggg	agigitigig	torgactcag	gcgcctggca	catttcaggg	agaaactcca
9781	aagtccacac	adagatttt	caaggaatgc	acaaattgaa	aacacactca	aaagacaaac
9841	atgcaagtaa atgaaactgt	tactaccata	aayaaayact	tatttastas	tttgtaaaat	gcaaaactga
9901	tattgcactc	tagcagaagt	atttcccaca	tttaattatt	acatagagici	accicaccia
9961	cccctgctgc	cccttcctcc	atccccata	ctaaatccta	gcctccccaa	actottocca
10021	aatgtgtcag	cagtagatat	aatattttca	tagtaatcta	ctarctctra	tocatagos
10081	aaaaaagatc	attaaatcag	gagattccct	gtccttgatt	tttggagaga	caatootata
10141	gggttgttta	tgaaatatat	tgaaaagtaa	gtgtttgtta	cactttaaaa	cagtaaaatt
10201	attttccttt	atataaccgg	ctaatgaaag	aggttggatt	gaattttgat	gtacttattt
10261	ttttatagat	atttatattc	aaacaattta	ttccttatat	ttaccatgtt	aaatatctgt
10321	ttgggcaggc	catattggtc	tatgtatttt	taaaatatqt	atttctaaat	gaaattgaga
10381	acatgctttg	ttttgcctgt	caaggtaatg	actttagaaa	ataaatattt	ttttccttac
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10201	ataaaggcaa	ataaatggtt	aaagacggtt	tcatagaaaa	gtgacaatta	gaaggatatt
10561	acggtctaag	ctaattatat	aaagaatttt	atctgtatct	taaatgttga	ttttatactg
10621	cattgaggta	aaaacacaaa	acaaaaaagc	agctttaaca	cctctgtctt	ctcttgggta
10001	gcagcctcct	gcttctcctt	cacctgaaaa	attctccagg	gacttcatcc	attaacttgg
10741	ctcaggctat	rggcaggatt	cacagtttaa	gctgatggtg	tggtgagaga	tgctttatcc
10861	atattaatgg	acceaeatta	gtaatggcaa	gacaaccccc	caaaacatac	ctaattatac
10921	aaagttatat aatggctttt	tattttctca	cattaaggaa	attattatt	cagagcaagt	agaggtttcc
10981	gcttcttcgt	gatagectag	gactgccgtg	tacccataga	adygaacacc	gagtaccatt
11041	attctaggtc	ctctgccaca	aagcaccact	tectetecae	tttaccttaa	ctaggiacity
11101	cagctcactg	gagagcacag	tattgcaatt	gcagtattgc	aaatggtcac	tactaactga
11161	attctctaag	agcttgatta	gccctcgaga	atcttccttg	cccttctcta	atagtgtctg
11221	aaggaattcc	tggcatttaa	caaatattag	catgtagtga	tcactgtcgt	cctaacagtg
11281	acacatcaga	aggatttcaa	ataacagtct	tcaggcatgc	gtaatcaatg	tectatacaa
11341	agtctccgtc	ctcattgatc	ctcatttttc	tctttaaggc	acagtccaat	atctttaggg
11401	aattgtttat	aaagcttact	ttatccataa	actgtttctc	agtgcgtgac	tctgaagaaa
11461	attttgaagt	tttgcccatg	ttgacaaggt	gcttggtctg	aacttggcca	gtatttaatc
11521	ttgagcaaac	gattcaattt	ccttctatcg	tgagttttct	catctatgaa	acaagggagt
11281	tgaggggagt	ttctttcata	cctctgagaa	agagtttgag	attacataaa	gaagttgaag
11701	tggcatgaaa	aaaaataaag	atctgagctt	agaagacatg	gatctaatac	atttaagagg
11761	aagtcagaat	tagagaagee	actgaacaaa	acagtccaaa	cggagcatag	taagtcagat
11821	tgatgagttt cctgcttcag	tatocagtag	gaaaaatga	caaacccttg	agccccctt	tcccatgctt
11881	gatttgcagt	aaataagttg	gaaaaatgaa	agggacgacg	tagacactct	agggcatgag
11941	gaaacattca	attatattac	agtocacato	agettgaage	dtaaactdat	acalyaagac
12001	gtcacatttc	ttgctctatt	tccagtaaaa	gcataattta	tagaaaccca	cttaddaced
12061	ctttctctct	ttacactgat	agcccaggca	agetttgate	tcagaactcc	anaaaccana
12121	gaactctagg	tggaatgtgg	taacttttgc	cagggcagag	ggaacaccta	ctaataggta
12181	cttcatttgc	accaccagag	attggcatct	tttttgatgg	atccactggc	tttgatactg
12241	cctgtactcc	cccaaaacac	agcttgggta	ttqqactaat	ctagagetee	ctcaggagaa
12301	ctcttgctga	cattaagaaa	gagcaacatt	ttqtctttcc	aggtgaaaat	ccaaggccaa
12361	aaagggagtg	actcacctaa	gatcacagaa	ggagctgtag	catctctgga	gcctgaacac
12421	ttaagttaag	cacgactatt	tcacgcagag	ggcatgaatt	С	
1	ggagctgttt	accccactc	taataggggt	tcaatataaa	aagccggcag	agagctgtcc
61	aagtcagacg	cgcctctgca	tctgcgccag	gcgaacgggt	cctgcgcctc	ctgcagtccc
121	agctctccac	caccgccgcg	tgcgcctgca	gacgctccgc	tcgctgcctt	ctctcctggc
241	aggcgctgcc	TITTCTCCCC	gttaaagggc	acttgggctg	aaggatcgct	ttgagatctg
3N1	aggaacccgc	agegetttga	yggacctgaa	gctgttttc	ttcgttttcc	tttgggttca
361	gtttgaacgg	ttataaatta	CCRRCCCTTTT	ttcagaatgg	actatttgct	catgattttc
421	tctctgctgt agcgcggtgg	ataaaaacaa	caaayyagct	ccagaaacag	cagtottagg	cgctgagctc
481	cggtccaage	actactccta	ctcatcccta	atmatasam	agtgtgtctc	cttctcccc
541	ctggacatca	tttqqqtcaa	cactocooan	cacattatta	catatacect	tagaagagat
	J J =: = = = = = =	, , , , , , , , , , , , , , , , , ,	gay	Jacquigue	Jycacygact	Lygaaycccc

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601 aggtccaaga gagccttgga gaatttactt cccacaaagg caacagaccg tgagaataga
  661 tgccaatgtg ctagccaaaa agacaagaag tgctggaatt tttgccaagc aggaaaagaa
  721 ctcagggctg aagacattat ggagaaagac tggaataatc ataagaaagg aaaagactgt
  781 tccaagcttg ggaaaaagtg tatttatcag cagttagtga gaggaagaaa aatcagaaga
  841 agttcagagg aacacctaag acaaaccagg tcggagacca tgagaaacag cgtcaaatca
  901 tettttcatg atcccaaget gaaaggcaag ceetecagag agegttatgt gacccacaac
  961 cgagcacatt ggtgacagac ttcggggcct gtctgaagcc atagcctcca cggagagccc
 1021 tgtggccgac tctgcactct ccaccctggc tgggatcaga gcaggagcat cctctgctgg
 1081 ttcctgactg gcaaaggacc agcgtcctcg ttcaaaaacat tccaagaaag gttaaggagt
 1141 tececeaace atetteactg gettecatea gtggtaactg etttggtete ttettteate
 1201 tggggatgac aatggacctc tcagcagaaa cacacagtca cattcgaatt c
13713 ctgcgccagg cgaacgggtc ctgcgcctcc tgcagtccca gctctccacc gccgcgtgcg
13773 cctgcagacg ctccgctcgc tgccttctct cctggcaggc gctgcctttt ctccccgtta
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13893 cctgaagctg tttttcttcg ttttcctttg ggttcagttt gaacgggagg tttttgatcc
13953 cttttttca gaatggatta tttgctcatg attttctctc tgctgtttgt ggcttgccaa
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14073 gagaaaccca ctcccagtcc accctggcgg ctccgccggt ccaagcgctg ctcctgctcg
14133 tecetgatgg ataaagagtg tgtetactte tgccacetgg acateatttg ggtcaacact
14193 cccgagcacg ttgttccgta tggacttgga agccctaggt ccaagagagc cttggagaat
14253 ttacttccca caaaggcaac agaccgtgag aatagatgcc aatgtgctag ccaaaaagac
14313 aagaagtgct ggaatttttg ccaagcagga aaagaactca gggctgaaga cattatggag
14373 aaagactgga ataatcataa gaaaggaaaa gactgttcca agcttgggaa aaagtgtatt
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14493 accaggtcgg agaccatgag aaacagcgtc aaatcatctt ttcatgatcc caagctgaaa
14553 ggcaagccct ccagagagcg ttatgtgacc cacaaccgag cacattggtg acagacttcg
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14673 cctggctggg atcagagcag gagcatcctc tgctggttcc tgactggcaa aggaccagcg
14733 tectegitea aaacatteea agaaaggita aggagiteee ceaaceatet teaetggett
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14853 cagaaacaca cagtcacatt cgaattc
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## (2) INFORMATION FOR SEQ ID NO:2860:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 718 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2860:
- (2) INFORMATION FOR SEQ ID NO:2861:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 715 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2861:
  - 1 gaacaaccag ctggatcagt tctcacagga gccacagctc agagactggg aaacatggtt 61 ccaaaactgt tcacttcca aatttgtctg cttcttctgt tggggcttat gggtgtggag 121 ggctcactcc atgccagacc cccacagttt acgagggctc agtggtttgc catccagcac 181 atcagtctga acccccctcg atgcaccatt gcaatgcggg caattaacaa ttatcgatgg 241 cgttgcaaaa accaaaatac ttttcttcgt acaacttttg ctaatgtagt taatgtttgt 301 ggtaaccaaa gtatacgctg ccctcataac agaactctca acaattgtca tcggagtaga 361 ttccgggtgc ctttactcca ctgtgacctc ataaatccag gtgcacagaa tatttcaaac 421 tgcaggtatg cagacagacc aggaaggagg ttctatgtag ttgcatgtga caacaagagat 481 ccacgggatt ctccacggta tcctgtggtt ccagttcacc tggataccac catctaagct

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541 cctgtatcag cagtcctcat catcactcat ctgccaagct cctcaatcat agccaagatc
  601 ccatccctcc atgtactctg ggtatcagca actgtcctca tcagtctcca taccccttca
  661 gctttcctga gctgaagtcc cttgtgaacc ctgcaataaa ctgctttgca aattc
(2) INFORMATION FOR SEQ ID NO:2862:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1452 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2862:
    1 ctgccagcag cgtatagttt tcacccagag tccagatccc accggcaaaa ctctgtctaa
   61 cacaggatga cttggaatta gagtccgtat agcagaaaga gcagcagggc tgtccttggg
  121 tatccgttgc tcagccaagt catcaaataa aaaggatgat tgcacaagtg gaccatgtgt
  181 caatctgtgg gtttctgcat ggccagaccc accaagggaa gctttattta aacagttcca
  241 agtaggggag accagetgee eetgaaceee agaacaacea getggateag tteteacagg
  301 agccacaget cagagactgg gtaagtcaac aatccccaga gctgggacag gaggggcagc
  361 gacagggcag cacctgaggg agaggtgagc tgaagttagt gcttaggaga tgtggcacac
  421 tttggggaca ggaagaaaag gaaatgcgac cccagagtgg cagcagaggg gcctgtgggt
  541 titettacag gaaacatggt tecaaaaetg tteaetteee aaatttgtet gettettetg
  601 ttggggctta tgggtgtgga gggctcactc catgccagac ccccacagtt tacgagggct
  661 cagiggittg ccatccagca catcagictg aaccccctc gatgcaccat tgcaatgcgg
  721 gcaattaaca attatcgatg gcgttgcaaa aaccaaaata cttttcttcg tacaactttt
 781 gctaatgtag ttaatgtttg tggtaaccaa agtatacgct gccctcataa cagaactctc
 841 aacaattgtc atcggagtag attccgggtg cctttactcc actgtgacct cataaatcca
 901 ggtgcacaga atatttcaaa ctgcaggtat gcagacagac caggaaggag gttctatgta
961 gttgcatgtg acaacagaga tccacgggat tctccacggt atcctgtggt tccagttcac
1021 ctggatacca ccatctaagc tectgtatea geagteetea teateactea tetgeeaage
1081 tecteaatea tagecaagat eccateette catgtactet gggtateage aactgteete
 1141 atcagtetee atacecette agettteetg agetgaagte eettgtgaac eetgeaataa
1201 actgetttge aaatteatet ggaagtgtet gtgtgtette eteggeeget etgetgteat
1261 ttagtgacaa tctgctctag agatttgggt ttatcatgaa tctctcccc tcaatatctg
1321 accaaattcc ttgattcccc catcatcctt catgtgatac ctgattccag gcctgcctta
1381 aaaaaaaatc caattgagtc aacttagcat tggtctccct agccttaata tctcctctaa
1441 gcaattttcc at
(2) INFORMATION FOR SEQ ID NO:2863:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2885 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2863:
   1 aggggcagct ggatcagttc tcacaggagc cacagctcag agactgggaa acatggttcc
  61 aaaactgttc acttcccaaa tttgtctgct tcttctgttg gggcttatgg gtgtggaggg
 121 ctcactccat gccagacccc cacagtttac gagggctcag tggtttgcca tccagcacat
 181 cagtetgaac eccettegat geaceattge aatgegggea attaacaatt ategatggeg
 241 ttgcaaaaac caaaatactt ttcttcgtac aacttttgct aatgtagtta atgtttgtgg
 301 taaccaaagt atacgctgcc ctcataacag aactctcaac aattgtcatc ggagtagatt
 361 ccgggtgcct ttactccact gtgacctcat aaatccaggt gcacagaata tttcaaactg
 421 caggtatgca gacagaccag gaaggaggtt ctatgtagtt gcatgtgaca acagagatcc
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 541 tgtatcagca gtcctcatca tcactcatct gccaagctcc tcaatcatag ccaagatccc
 601 atccctccat gtactctggg tatcagcaac tgtcctcatc agtctccata ccccttcagc
 661 tttcctgage tgaagtccct tgtgaaccct gcaataaact gctttgcaaa ttcaaaaa
 719 gaacaaccag ctggatcagt tctcacagga gccacagctc agagactggg aaacatggtt
 779 ccaaaactgt tcacttccca aatttgtctg cttcttctgt tggggcttat gggtgtggag
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1259 cctgtatcag cagtcctcat catcactcat ctgccaagct cctcaatcat agccaagatc
1319 ccatecetec atgtactetg ggtateagea actgteetea teagteteea tacceettea
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1379 gctttcctga gctgaagtcc cttgtgaacc ctgcaataaa ctgctttgca aattc
1434 ctgccagcag cgtatagttt tcacccagag tccagatccc accggcaaaa ctctgtctaa
1494 cacaggatga cttggaatta gagtccgtat agcagaaaga gcagcagggc tgtccttggg
1554 tatccgttgc tcagccaagt catcaaataa aaaggatgat tgcacaagtg gaccatgtgt
1614 caatctgtgg gtttctgcat ggccagaccc accaagggaa gctttattta aacagttcca
1674 aqtaqqqqaq accaqctqcc cctgaacccc agaacaacca gctggatcag ttctcacagg
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2034 ttggggctta tgggtgtgga gggctcactc catgccagac ccccacagtt tacgagggct
2094 cagtggtttg ccatccagca catcagtctg aaccccctc gatgcaccat tgcaatgcgg
2154 qcaattaaca attatcqatq gcgttgcaaa aaccaaaata cttttcttcg tacaactttt
2214 gctaatgtag ttaatgtttg tggtaaccaa agtatacgct gccctcataa cagaactctc
2274 aacaattgtc atcggagtag attccgggtg cctttactcc actgtgacct cataaatcca
2334 ggtgcacaga atatttcaaa ctgcaggtat gcagacagac caggaaggag gttctatgta
2394 gttgcatgtg acaacagaga tccacgggat tctccacggt atcctgtggt tccagttcac
2454 ctggatacca ccatctaagc tcctgtatca gcagtcctca tcatcactca tctgccaagc
2514 tecteaatea tagecaagat eccateette catgtactet gggtateage aactgteete
2574 atcagtetee atacceette agettteetg agetgaagte cettgtgaac eetgeaataa
2634 actgctttgc aaattcatct ggaagtgtct gtgtgtcttc ctcggccgct ctgctgtcat
2694 ttagtgacaa tctgctctag agatttgggt ttatcatgaa tctctccccc tcaatatctg
2754 accaaattcc ttgattcccc catcatcctt catgtgatac ctgattccag gcctgcctta
2814 aaaaaaaatc caattgagtc aacttagcat tggtctccct agccttaata tctcctctaa
2874 gcaattttcc at
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- (2) INFORMATION FOR SEQ ID NO:2864:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 694 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2864:
  - 1 cacaggaget acagegegga gactggaaac atggttccaa aactgttcac ttcccaaatt 61 tgtctgcttc ttctgttggg gcttctggct gtggagggct cactccatgt caaacctcca
  - 121 cagtttacct gggctcaatg gtttgaaacc cagcacatca atatgacctc ccagcaatgc 181 accaatgcaa tgcaggtcat taacaattat caacggcgat gcaaaaacca aaatactttc
  - 241 cttcttacaa cttttgctaa cgtagttaat gtttgtggta acccaaatat gacctgtcct 301 agtaacaaaa ctcgcaaaaa ttgtcaccac agtggaagcc aggtgccttt aatccactgt
  - 361 aacctcacaa ctccaagtcc acagaatatt tcaaactgca ggtatgcgca gacaccagca
  - 421 aacatgttct atatagttgc atgtgacaac agagatcaac gacgagaccc tccacagtat 481 ccqqtqqttc cagttcacct ggatagaatc atctaagctc ctgtatcagc actcctcatc
  - 541 atcactcatc tgccaagctc ctcaatcata gccaagatcc catctctcca tatactttgg
  - 601 qtatcaqcat ctqtcctcat caqtctccat accccttcag ctttcctgag ctgaagtgcc 661 ttgtgaaccc tgcaataaac tgctttgcaa attc
- (2) INFORMATION FOR SEO ID NO: 2865: (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1489 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2865:
  - 1 ctqcaqqcaq catatagttt tcatccagag tttggatcta accagcaaaa ctctgtctta
  - 61 cacaggatga cttggaatta gagtccttat agcagaaaga gcagcagggc tgtccttggg
  - 121 tatccgttgc tcagccaagt catcaaataa aaaggatgat tgcacaagtg gactatgtac
  - 181 caatctqtqq qtttctqcat qqccaaqagc cagaccctcc ctctgggctc tgctggccca
  - 241 acccaccaag ggatgcttta tttaaacagt tccaagtagg ggagaccagc tgcccctgaa

  - 301 ccccagaaca accagctgga tcagttctca caggagctac agcgcggaga ctgggtaagt
  - 361 caacgatccc cagagctggg acagaagggg cagcaatggg gcagcaactg agggagaaga
  - 421 gagctgacgt tagtgcttag gagacgttgc acactttgca gacaggaagt aaaggaaatg
  - 481 ggaccccaga gtggccgcag aggggcctgt ggggtaagac actacagtgt gtgtcataac

  - 601 actgttcact tcccaaattt gtctgcttct tctgttgggg cttctggctg tggagggctc 661 actccatgtc aaacctccac agtttacctg ggctcaatgg tttgaaaccc agcacatcaa
  - 721 tatgacetee cageaatgea ecaatgeaat geaggteatt aacaattate aacggegatg
  - 781 caaaaaccaa aatactttcc ttcttacaac ttttgctaac gtagttaatg tttgtggtaa

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841 cccaaatatg acctgtccta gtaacaaaac tcgcaaaaat tgtcaccaca gtggaagcca
 901 ggtgccttta atccactgta acctcacaac tccaagtcca cagaatattt caaactgcag
 961 gtatgcgcag acaccagcaa acatgttcta tatagttgca tgtgacaaca gagatcaacg
1021 acgagaccct ccacagtatc cggtggttcc agttcacctg gatagaatca tctaagctcc
1081 tgtatcagca ctcctcatca tcactcatct gccaagctcc tcaatcatag ccaagatccc
1141 atototocat atactttggg tatcagcatc tgtcctcatc agtctccata ccccttcagc
1201 tttcctgagc tgaagtgcct tgtgaaccct gcaataaact gctttgcaaa ttcatctgaa
1261 agtgtctgtg tgtcttcatt agccgctctg ctgtcattta gtgacaatct actctagaga
1321 tttttcttcc tctaacctga gacttccggg aaacagagag atttgaagat aagagacgct
1381 ttctgtcatg aaacagcaca gtcttatccc tctcctgct ttaggctgag aagctgaggt
1441 ctcaaccgat atctagcaac tgtcgaagac tcttgctttg atcaagctt
(2) INFORMATION FOR SEQ ID NO: 2866:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 735 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEO ID NO:2866:
   1 gctgccctg aaccccagaa caaccagctg gatcagttct cacaggagct acaggccgga
  61 gactgggaaa catggttcca aaactgttca cttcccaaat ttgtctgctt cttctgttgg
 121 ggcttctggc tgtggagggc tcactccatg tcaaacctcc acagtttacc tgggctcaat
 181 ggtttgaaac ccagcacatc aatatgacct cccagcaatg caccaatgca atgcaggtca
 241 ttaacaatta tcaacggcga tgcaaaaacc aaaatacttt ccttcttaca acttttgcta
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301 acgtagttaa tgtttgtggt aacccaaata tgacctgtcc tagtaacaaa actcgcaaaa 361 attgtcacca cagtggaagc caggtgcctt taatccactg taacctcaca actccaagtc 421 cacagaatat ttcaaactgc aggtatgcgc agacaccagc aaacatgttc tatatagttg 481 catgtgacaa cagagatcaa cgacgagacc ctccaccagta tccggtggtt ccagttcacc 541 tggatagaat catctaagct cctgtatcag cactcctcat catcactat ctgccaagct 601 cctcaatcat agccaagatc ccatctctc atatactttg ggtatcagca tctgtcctca 661 tcagtctcca tacccsttca gctttcctga gctgaagtgc cttgtgaacc ctgcaataaa

661 tcagtctcca taccccttca gctttcctga gctgaagtgc cttgtgaacc ctgcaataaa

721 ctgctttgca aattc

#### (2) INFORMATION FOR SEQ ID NO:2867:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 2918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2867:
- 1 cacaggaget acagegegga gactggaaac atggttecaa aactgtteac tteecaaatt 61 tgtctgcttc ttctgttggg gcttctggct gtggagggct cactccatgt caaacctcca 121 cagtttacct gggctcaatg gtttgaaacc cagcacatca atatgacctc ccagcaatgc 181 accaatgcaa tgcaggtcat taacaattat caacggcgat gcaaaaacca aaatactttc 241 cttcttacaa cttttgctaa cgtagttaat gtttgtggta acccaaatat gacctgtcct 301 agtaacaaaa ctcgcaaaaa ttgtcaccac agtggaagcc aggtgccttt aatccactgt 361 aacctcacaa ctccaagtcc acagaatatt tcaaactgca ggtatgcgca gacaccagca 421 aacatgttct atatagttgc atgtgacaac agagatcaac gacgagaccc tccacagtat 481 ccggtggttc cagttcacct ggatagaatc atctaagctc ctgtatcagc actcctcatc 541 atcactcatc tgccaagctc ctcaatcata gccaagatcc catctctcca tatactttgg 601 gtatcagcat ctgtcctcat cagtctccat accccttcag ctttcctgag ctgaagtgcc 661 ttgtgaaccc tgcaataaac tgctttgcaa attc 695 ctgcaggcag catatagttt tcatccagag tttggatcta accagcaaaa ctctgtctta 755 cacaggatga cttggaatta gagtccttat agcagaaaga gcagcagggc tgtccttggg 815 tatccgttgc tcagccaagt catcaaataa aaaggatgat tgcacaagtg gactatgtac 875 caatctgtgg gtttctgcat ggccaagagc cagaccetee etetgggete tgctggeeca 935 acccaccaag ggatgcttta tttaaacagt tccaagtagg ggagaccagc tgcccctgaa 995 ccccagaaca accagctgga tcagttctca caggagctac agcgcggaga ctgggtaagt 1055 caacgatccc cagagetggg acagaagggg cagcaatggg gcagcaactg agggagaaga 1115 gagctgacgt tagtgcttag gagacgttgc acactttgca gacaggaagt aaaggaaatg 1175 ggaccccaga gtggccgcag aggggcctgt ggggtaagac actacagtgt gtgtcataac 1295 actgttcact tcccaaattt gtctgcttct tctgttgggg cttctggctg tggagggctc 1355 actocatgte aaacctecae agtttacetg ggeteaatgg tttgaaacce ageacateaa 1415 tatgacetee cageaatgea ceaatgeaat geaggteatt aacaattate aacggegatg

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1475 caaaaaccaa aatactttcc ttcttacaac ttttgctaac gtagttaatg tttgtggtaa
1535 cccaaatatg acctgtccta gtaacaaaac tcgcaaaaat tgtcaccaca gtggaagcca
1595 ggtgccttta atccactgta acctcacaac tccaagtcca cagaatattt caaactgcag
1655 gtatgcgcag acaccagcaa acatgttcta tatagttgca tgtgacaaca gagatcaacg
1715 acgagaccct ccacagtate eggtggttee agtteacctg gatagaatea tetaagetee
1775 tgtatcagca ctcctcatca tcactcatct gccaagctcc tcaatcatag ccaagatccc
1835 atctctccat atactttggg tatcagcatc tgtcctcatc agtctccata ccccttcagc
1895 tttcctgagc tgaagtgcct tgtgaaccct gcaataaact gctttgcaaa ttcatctgaa
1955 agtgtctgtg tgtcttcatt agccgctctg ctgtcattta gtgacaatct actctagaga
2015 tttttcttcc tctaacctga gacttccggg aaacagagag atttgaagat aagagacgct
2075 ttctgtcatg aaacagcaca gtcttatccc tctccctgct ttaggctgag aagctgaggt
2135 ctcaaccgat atctagcaac tgtcgaagac tcttgctttg atcaagctt
2184 gctgcccctg aaccccagaa caaccagctg gatcagttct cacaggagct acaggccgga
2244 gactgggaaa catggttcca aaactgttca cttcccaaat ttgtctgctt cttctgttgg
2304 ggcttctggc tgtggagggc tcactccatg tcaaacctcc acagtttacc tgggctcaat
2364 ggtttgaaac ccagcacatc aatatgacct cccagcaatg caccaatgca atgcaggtca
2424 ttaacaatta tcaacggcga tgcaaaaacc aaaatacttt ccttcttaca acttttgcta
2484 acgtagttaa tgtttgtggt aacccaaata tgacctgtcc tagtaacaaa actcgcaaaa
2544 attgtcacca cagtggaage caggtgcctt taatccactg taacctcaca actccaagtc
2604 cacagaatat ttcaaactgc aggtatgcgc agacaccagc aaacatgttc tatatagttg
2664 catgtgacaa cagagatcaa cgacgagacc ctccacagta tccggtggtt ccagttcacc
2724 tggatagaat catctaaget cetgtateag cacteeteat catcacteat etgecaaget
2784 cctcaatcat agccaagatc ccatctctcc atatactttg ggtatcagca tctgtcctca
2844 tcagtctcca taccccttca gctttcctga gctgaagtgc cttgtgaacc ctgcaataaa
2904 ctgctttgca aattc
```

## (2) INFORMATION FOR SEQ ID NO:2868:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 391 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2868:
- 1 ccatggagga aggtcaatat tcaggtagga ggactctctg gttctaacgt tggcagaagc
- 61 aatgaccett agetacteet tteacecaga agagaagegg ggetteecag teeetetetg 121 ggaaagaggg tgaatttcta agaaagggac tggtgtgagt aaggaggtga ggccgcactg
- 181 actttcctgg cacagagcca ggaaggagtg gaaaattgag ggcccctcct ttttctgatt
- 301 ggacgcaata gagtcagagg ccaaatagaa caggaacttg gaacaagcag aatttagcat
- 361 aatgaatcct ccaagccagg gtgagtgcag a

## (2) INFORMATION FOR SEQ ID NO: 2869:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3108 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2869:
- 1 aagcttggga ataagtccag ctgggccatg ttgtgaggac atggggatga agtcttagtt
- 61 ccaggatggg gctgggatgg agtttggtgt ttcttttctg tttttctttc tttttcttt
- 121 tcttttttt ttttgtgaga cagagtttag cttttgttgc ccaggctgga atgcaatggc
- 181 ggatetegge teacegeaac etetgeetee eggatteaag egatteteet geeteageet
- 241 cccgagtage taggattaca ggtgcccacc accatgccca gctaattttt tttttttt
- 301 tttttttttg tattttcagt agatacaggg tttcaccatg ttggccttga actcctgacc
- 361 tcagatgatc cacctgcctc ggcctcccaa agtgctggga ttacaggcgc tgacgatgtg
- 421 occggtetet etetetetet ttetetetet etttettea teteaetgtg ttgeeceagg
- 481 ctgatcttga actcctgggc tcaagtgatc cactcacctc tgcctccca gtagctggga
- 541 tcacaggcat gcaccaccat gccctgctag tttttatagt ttttgtagag acaacggctt
- 601 gctatgttgt ccaggctggt cttgaactcc caggcttaag tgatcctccc acctcagcct
- 661 cccaaagtgc tgggattaca ggcgtgaacg tccgtgccag ccaaactgtc catatttgac
- 721 ctgaatatta tctcacgtat ctttcttcc ccccgcttcc ctccttccct cctactcctc
- 781 cttctccctc tccttccttc tgtctttttt ttccccttcc tctgcctctc tctcctcttc
- 841 cctttttct tgctgggact caaacctggg acatttgacc tgggagccta tttgctcaat
- 901 catcaagaga cataatotoa tggtggggtg totgotggta agtgoogggt ggoaggatoo
- 961 caactccagg ccgtccttct aacccaagag gccctgcctc tgcctagagc cttccgtggc

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1021 tecceaggge cetetgtgat eggecatagt ggtatgatte agtgtgeagt aacagtggtt
1081 cacatettga egetaceact caceteette agecetgtgg gaacttgetg ettaacatet
1141 ctagttetea eccaattete ttaeetgaga aatggagata ataataacae ggaetteaee
1201 cgggtgtggg gagcaccagg agaggccatg cgtgtaatgt tatccgggtg gcaagcccat
1261 atttaggtet atgaaaatag aagetgteag tggetetaet tteagaagaa agtgtetete
1321 ttcctgctta aacctctgtc tctgacggtc cctgccaatc gctctggtcg accccaacac
1381 actaggagga cagacacagg ctccaaactc cactaagtga gtacgtatct ggtgtgttgg
1441 gggttggccc atgggcagtg gagatcaaag cgcccttgga agaaacgacc ttgggctgag
1501 cctcaaggga tgaccagcag gaggtcacaa ccagagaagg gaggtggtgg gtggtgaggg
1561 ggcgggggtg ggggccgcag tgtggacaga atctcgaggc attcgagtcc ctgatttggg
1621 gaagtgaaag caggccatct ggtctgagat gagcttggtg agtgcgctgg gccgatcata
1681 gagggccctg gggagccatg gaagactcta ggcagaggca ggacctcttg ggttagaagg
1741 acggcctgga gttgggatcc tgccacccag cacttaccag tagacacccc accatgagat
1801 tatgtctcca gatgattgag caaatgggct cccagctcaa gggtcccggg tttgagtcca
1861 gtcccaccac tgcgtgatgg ggacaaatga cttaccctct tggaacctca gttccactga
1921 gagaggeece acagaatgag gacagteece cageateetg ecagtaggtt tactgageae
1981 ctactgtgtg ctggtgcttt gaatactccc aatttacaga tgagcaaact gagctgctca
2041 tccagggaga agccaggact cggactcagg tctgtccagc tgcctccctg gacagttcca
2101 gtcccaggat ggtctctggg ttcctctcac aatgtcaaaa gggccagctt gagctgccgc
2161 taatcagage etggeegege cacaceceae etecetgagg eteegagaga agggaettae
2221 ctatagtcaa gcagcgaaag aaggtagccc gtgacctcca ggcctgaagg accccaagtc
2281 ccatgctcct cagcacatag tagatgcttt aaagtcagag gacttggtcg ggcgcaggca
2341 cgcctgtaat cctagcactt tgggaggctg aggagggcag atcacctgtg gtcaggagtt
2401 cgagaccagc ctgatcaata tggtgaaacc ctgtctctac taaaatacaa aaattagcca
2461 ggtgtggtgg tgggtgcctg tagtcccagc tacttgggag gctaagacag gagaatcgct
2521 tgaacccggg aggtggaggt tgcagtgagc caagatggtg ccattgcact ctagcctggg
2581 tgacagageg agactecate teaaaaaata aaaaaatagg eeatgeacag geteaegeet
2641 gtaatcccag cactttggga ggccgaggcg ggcggatcat gaggtcagga gtttgagact
2701 agcctggcca acatagtgaa aacccgtctc tactaaaaat acaaaaatta tctggtcatg
2761 gtggcacgtg actatagtcc cagctactcg ggaggctgag gcgggagaat cgcttgaacc
2821 caggaggtgg aggtggcagt gagccgagat cgtgcccctg cactccagcc tgggcaacag
2881 agcgagactc catttcaata aataaataaa taaataaagt cagagcactt tacagatgcc
2941 ctggggacat tggcagagga gaaggctgag gcctgggtta tgggctctta gcatttctca
3001 gtgggacgtg gcacagagta gatgtttcat aaatgtttag aatctgaaga cccactgtgc
3061 gcagcccggc accaaaaacc tcaggtatgc tgtgatctca ttggatcc
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# (2) INFORMATION FOR SEQ ID NO:2870:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1503 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2870:

				0.2070.		
1	ctcctgctta	aacctctgtc	tctgacggtc	cctgccaatc	gctctggtcg	accccaacac
ОТ	actaggagga	cagacacagg	ctccaaactc	cactaaqtqa	ccagagetgt	gattgtgccc
121	gctgagtgga	ctgcgttgtc	agggagtgag	toctccatca	tcgggagaat	CCaagcagga
181	ccgccatgga	ggaaggtcaa	tattcagaga	tcgaggagct	teccaggagg	caatattaca
241	ggcgtgggac	tcagatcgtg	ctgctggggc	tagtgaccac	cactctataa	actagactac
301	tgactctgct	tctcctqtqq	cactgggaca	ccacacagag	totaaaacad	ctagagaca
361	gggctgcccg	gaacgtctct	caagtttcca	agaacttgga	aadccaccac	aataaccaaa
421	tggcgcagaa	atcccagtcc	acgcagattt	Cacaggaact	aagecaecae	canactana
481	agcagagatt	gaaatctcag	gacttggagc	tatactaga	cctaaacaaa	cttcaageag
541	atctgagcag	cttcaagtcc	caggaattga	acdadaddaa	caaaacttca	gatttggtag
601	aaagactccg	ggaggaggtg	acaaagctaa	aastaaaatt	acaaatataa	acceptete
661	tgtgcaacac	gtgccctgaa	aagtggatca	atttccaaca	geaggigie	tacttcccc
721	agggcaccaa	gcagtgggtc	cacgcccggt	atacctatas	caacataaaa	acciteggea
781	tcagcatcca	Cadcccddad	gagcaggact	tectalcal	cyacatygaa	gggcagctgg
841	cctggattgg	ccttcggag	ttggacctga	aggangagett	tatataaata	cacaccggct
901	atgtggacta	cadcaactdd	gctccagggg	agggagagtt	caccigggig	gatgggagee
961	gcgtgatgat	acagaactcc	gatagataga	agcccaccag	ccggageeag	ggcgaggact
1021	cctagatata	caaccaacta	ggtcgctgga	acyacycctt	ctgcgaccgt	aagctgggcg
1081	ccatagaege	tgattgatg	gccacatgca	cgccgccagc	cagcgaaggt	tccgcggagt
1141	tccactctta	agastgasta	ccagaccctg	acggccgcct	gcccacccc	tctgcccctc
1201	ggcctaaaag	agcatggata	cagccaggcc	cagagcaaga	ccctgaagac	ccccaaccac
	ggcccaaaag	colocitigig	gctgaaaggt	ccctgtgaca	ttttctgcca	cccaaacgga
1201	ggcagctgac	acateteeeg	ctcctctatg	gcccctgcct	tcccaggagt	acaccccaac
1321	agcaccctct	ccagatggga	gtgcccccaa	cagcaccctc	tccagatgag	agtacacccc
1001	aacaycaccc	tctccagatg	cagccccatc	tcctcagcac	cccaggacct	gagtatcccc
T44T	ayeteaggtg	grgagteete	ctgtccagcc	tgcatcaata	aaatggggca	gtgatggcct

1501 ccc

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(2) INFORMATION FOR SEQ ID NO:2871:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1530 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2871:
    1 agtggctcta ctttcagaag aaagtgtctc tcttcctgct taaacctctg tctctgacgg
   61 tecetgecaa tegetetggt egaceecaae acaetaggag gacagacaea ggetecaaae
  121 tccactaacc agagctgtga ttgtgcccgc tgagtggact gcgttgtcag ggagtgagtg
  181 ctccatcatc gggagaatcc aagcaggacc gccatggagg aaggtcaata ttcagagatc
  241 gaggagette ecaggaggeg gtgttgeagg egtgggaete agategtget getggggetg
  301 gtgaccgccg ctctgtgggc tgggctgctg actctgcttc tcctgtggca ctgggacacc
  361 acacagagtc taaaacagct ggaagagagg gctgcccgga acgtctctca agtttccaag
  421 aacttggaaa gccaccacgg tgaccagatg gcgcagaaat cccagtccac gcagatttca
  481 caggaactgg aggaacttcg agctgaacag cagagattga aatctcagga cttggagctg
  541 teetggaace tgaacggget teaageagat etgageaget teaagteeca ggaattgaac
  601 gagaggaacg aagcttcaga tttgctggaa agactccggg aggaggtgac aaagctaagg
  661 atggagttgc aggtgtccag cggctttgtg tgcaacacgt gccctgaaaa gtggatcaat
  721 ttccaacgga agtgctacta cttcggcaag ggcaccaagc agtgggtcca cgcccggtat
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 841 ctgaccaagc atgccagcca caccggctcc tggattggcc ttcggaactt ggacctgaag
  901 ggagagttta tetgggtgga tgggagecat gtggaetaca gcaaetggge tecaggggag
 961 cccaccagcc ggagccaggg cgaggactgc gtgatgatgc ggggctccgg tcgctggaac
 1021 gacgeettet gegacegtaa getgggegee tgggtgtgeg aceggetgge cacatgeaeg
1081 ccgccagcca gcgaaggttc cgcggagtcc atgggacctg attcaagacc agaccctgac
1141 ggccgcctgc ccaccccctc tgcccctctc cactcttgag catggataca gccaggccca
1201 gagcaagacc ctgaagaccc ccaaccacgg cctaaaagcc tctttgtggc tgaaaggtcc
1261 ctgtgacatt ttctgccacc caaacggagg cagctgacac atctcccgct cctctatggc
1321 ccctgccttc ccaggagtac accccaacag caccctctcc agatgggagt gcccccaaca
1381 gcaccctctc cagatgagag tacaccccaa cagcaccctc tccagatgca gccccatctc
1441 ctcagcaccc caggacctga gtatccccag ctcaggtggt gagtcctcct gtccagcctg
1501 catcaataaa atggggcagt gatggcctcc
(2) INFORMATION FOR SEQ ID NO:2872:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 6532 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2872:
   1 ccatggagga aggtcaatat tcaggtagga ggactctctg gttctaacgt tggcagaagc
  61 aatgaccett agetacteet tteacceaga agagaagegg ggetteeeag teeetetetg
 121 ggaaagaggg tgaatttcta agaaagggac tggtgtgagt aaggaggtga ggccgcactg
 181 actttcctgg cacagagcca ggaaggagtg gaaaattgag ggcccctcct ttttctgatt
 241 caacaccete etgacaaaaa aagaaaaaga aaaaaaaaaa eggetteage tagggagegg
 301 ggacgcaata gagtcagagg ccaaatagaa caggaacttg gaacaagcag aatttagcat
 361 aatgaatcct ccaagccagg gtgagtgcag a
 392 aagcttggga ataagtccag ctgggccatg ttgtgaggac atggggatga agtcttagtt
 452 ccaggatggg gctgggatgg agtttggtgt ttctttcttg tttttctttc tttttcttt
 512 tcttttttt ttttgtgaga cagagtttag cttttgttgc ccaggctgga atgcaatggc
 572 ggatctcggc tcaccgcaac ctctgcctcc cggattcaag cgattctcct gcctcagcct
 632 cccgagtagc taggattaca ggtgcccacc accatgccca gctaattttt tttttttt
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 361 tcagatgate cacctgcctc ggcctcccaa agtgctggga ttacaggcgc tgacgatgtg
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 481 ctgatcttga actcctgggc tcaagtgatc cactcacctc tgcctcccca gtagctggga
 541 tcacaggcat gcaccaccat gccctgctag tttttatagt ttttgtagag acaacggctt
 601 gctatgttgt ccaggctggt cttgaactcc caggcttaag tgatcctccc acctcagcct
 661 cccaaagtgc tgggattaca ggcgtgaacg tccgtgccag ccaaactgtc catatttgac
 721 ctgaatatta tctcacgtat ctttctttcc ccccgcttcc ctccttccct cctactcctc
 781 cttctccctc tccttccttc tgtctttttt ttccccttcc tctgcctctc tctcctcttc
 841 cctttttct tgctgggact caaacctggg acatttgacc tgggagccta tttgctcaat
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901 catcaagaga cataatotoa tggtggggtg totgotggta agtgoogggt ggoaggatoo 961 caactooagg cogtoottot aaccoaagag goootgooto tgootagago ottoogtggo

1021	. tccccagggc	cctctgtgat	cggccatagt	ggtatgattc	agtgtgcagt	aacagtggtt
1081	. cacatcttga	ı cgctaccact	cacctccttc	agccctgtgg	gaacttgctg	cttaacatct
1141	. ctagttctca	cccaattctc	: ttacctgaga	. aatggagata	ataataacac	ggacttcacc
1201	. cgggtgtggg	gagcaccagg	agaggccatg	cgtgtaatgt	tatccgggtg	gcaagcccat
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29461 tcccatgtga caggaaacag ggcgccattg 29521 tcaaatggag atgacaatga ggcagaagcc	gattacase act to a section and
23301 Cugguidad dudalleade agrerdasad	tttatgcata gtgtgtgtect
29641 totcagttot otttatactt gcaattocag	ggtactgaaa tggctaaata ttttaatti
	yyuuciyaaa iyyuladdid iiiigaatit

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29701 ctggtcagaa acgacccttc ctttgaaatt cctgccaaga ggcaccttgg cctggtggtt
29761 tttcgtctaa aggtaatacc atcttccaag cccctctgtg aatgatgtct tgtggtgctc
29821 cagageetet eggaaacaca aactgggete tggggatget gacagggggt gegatggaga
29881 cttcacttcc tttatttttc aaacagggtc ctaattgtct cacagaaaat gtgttaaagg
29941 aaatagctaa agctggccgt ctcttcctca tcccggccac tatccaggac aagttaatca
30001 teegttteae tgtgacatee eagtttacea etagggatga eateetgaga gaetggaate
30061 tcattcgaga tgctgccact ctcatcctga gtcagcactg tacttcccaa cccagccctc
30121 gggttgggaa cctcatctcc caaatcaggg gtgccagagc ctgggcctgt ggaacgtccc
30181 ttcagtctgt cagtggggca ggagatgatc cagtccaggc caggaagatc atcaagcagc
30241 ctcagcgtgt gggagccggt cccatgaaaa gggaaaatgg cctccatctt gaaaccctgc
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30361 cctccttcct gttcagttac ttgtctgtgc agactaagaa gaagacggtg cgctccctca
30421 gttgcaacag tgtgccagtg agtgctcaga agccactgcc cacagaggcc tctgtgaaga
30481 atgggggctc ctccagggtc agaatctttt ccaggtttcc agaagacatg atgatgctga
30541 agaaaagtgc cttcaaaaaa ctcatcaaat tctacagcgt ccccagcttt cctgaatgca
30601 gctctcaatg tggactccag ctgccctgtt gccctctgca ggccatggtt tagacacagg
30661 gccttcagcc agagtctgag gatatacttc agggactctg tgaacccctc acaattgtat
30721 gccaactttg tgtgcttatg tgtacatgca tttttcttgg ggcgagttca taattttaat
30781 caaattetea taggggette atgaceeaca ataggataca aacgaagagt ttaageeage
30841 atgatccaga tgggttcagc agtctggtca gtgagaaagg gccgagggta gacaggcagc
30901 ttctgtggtt cagcttgtga catgatatat aacacagaaa taaattatgc ttgtccctga
30961 aacaaaacat accctgtgtc acttaattgg ctgctgaaac attgattaac cagtctggga
31021 gcttaaacat atgtactttt tttgaagcat caattatgag tcaggcactg tggctcatgg
31081 ttcataaatg aggaaaccaa cgtttaggtc acacagcttt aaataggcaa acccaggtct
31141 cctgcttcca gtgaagccca ggctgtttcc accatgcagt actgctcaag gttggacctg
31201 aacaggaget cacageeeag caggetgetg gteeteeagt acatttaaat gttteettte
31261 taggtttgga acttgtgcat tttcccctta ttttcctgga cccggtagtc aaataaaagc
31321 tatgctcaca agtggcttgc ccataattag ttcagaggcc aaacacataa ttttatttcc
31381 atttcagatg gtactttgat aggttgtgac tctgaaatgg gttatgtaaa gagtattaaa
31441 gacaaacaaa gctgggcatt agttagaact ttaaggatag atgttaaaca gtaatatact
31501 atcacaatag ggaaaagggt cccatgtgaa ctgaactcaa cttggatttg tgcaaaggtg
31561 actaggcatt tcacagcgtg aatgggagaa tagggagaag gccagcctag acttagaaga
31621 gtcaggaatg tgaaaaatta caaaaagcgg aaagtggttg atgtgaaacc cctctgggtt
31681 tgctaactgg tgctttttga agtaagactc ttaccctccc acagagactg ggagtcaggg
31741 ccctgtgttc aggggttcgc tggaacaaac agttaattct ttcggcagct ttgagttttc
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31861 aaactgtgtt agtgtttgtt caagtcttta taggcaaagg ttgaggccta gttgagaagg
31921 gggctcggag gagcttagct agagtttggt cgagaaaaga atctttgtta agagtttaaa
31981 gctttttttt ttttttttt ttttttttt ttgagactag tgctttctct ctttcccagg
32041 ctggagtgca gaggcacaat catgtettae tgeageetea aetteetggg ettgageaat
32101 cctcctgctt cagcctccca agtagctatt tatttttgag atggggtctc attctgtgag
32161 tgcagtggtt ggaacacagt tcactgcagc ctcagcctct gaggctcaag ctgtctttcc
32221 acctcagtcc cacgagtagc tgggactatg agtgcacacc actatgcctg gctaattttt
32281 ataacttttt acagagacag ggtctccctg tgttgcccag gctggtctgg aactcctggg
32341 ctcaggtgat c
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(2) INFORMATION FOR SEQ ID NO:2875:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2371 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2875:

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1 cgactaagaa gccctgttga cagctgcctt ccagcctcct ctgtctgtct gccaggagga 61 gcaatccaag ggagatgatg gagccctgtg aataccgtga ataccgtgaa tactaccgag 121 ctagagggaa agagatggtg gattacatct cccagtacct gagcactgtg cgggagaggc 181 aggtactcc aaatgtgcag cctggatacc tgcgaggcca gctacctgcg agtgctcccg 241 aggaacccga cagctgggac agcatctttg gggacattga acgagtcatc atgcctgggg 301 tggttcactg gcagagccc cacatgcacg cctactatcc tgctcttacc tcatggccat 361 ccctgctagg agacatgctg gagatgaaca tcatcgct aggattcacg tgggcatcta 421 gcccagcttg cacagagctg gagatgaaca tcatggactg gctggcgaag atgctgggc 481 tcccggagta cttcctgcac caccatccca gcagccgagg gggaggtgtc ttacagagca 601 tgacagcgtg cgagcccgat gctaaccgat tcatggacga agacatgaa atccacttta atgccctgc tggcagcaag agacacaaa atcctagcaa 601 tgacagcgtg cgagcccgat tcagtggaga aggctggctt gatttccct gtggaagatca 721 gattctacc tgtggacgac acttctcac tcagtgagaa aggctggctt tgcaacgtta gggactactg 841 gagaagacaa gcaacagggc ttggtgccgat tgtttgtctg tgcaacgtt ggggactgtt gagggactgt gagggactgt
```

```
901 ggctccacgt cgatgctgct tatgcaggca cggcctttct gtgccctgag ctccgagggt
 961 teetggaggg categagtae geegacteet teacetttaa eeetteeaag tggatgatgg
1021 tacactttga ctgtactgga ttctgggtca aggacaagta caagctgcag cagaccttta
1081 gtgtgaaccc catctacctc cgacatgcca actctggtgc agccacggac ttcatgcatt
1141 ggcagatece ettgageegg egettteget eeattaaget gtggtttgtg atteggteet
1201 tcggggtgaa gaatcttcaa gcacatgtca gacacggcac agaaatggct aaatactttg
1261 aatctctggt cagaagcgac cetteetteg aaatteetge taagaggeac ettggtttgg
1321 tggttttccg tctgaagggt cctaattgtc tcacagaaag tgtgttaaag gaaatagcca
1381 aagctggcca getetttete atcccggcta ctatccaaga caagctgate atccgtttca
1441 ctgtgacgtc ccagtttacc accaaggagg acatcctgag agattggcac ctcatccaag
1501 aggctgctaa ccttgtcctg agccagcact gcacttccca gccgagccct cgggccaaga
1561 acgtcatece gecacegeca gggaccagag ggctatecet ggagtcagte agegagggag
1621 gagatgaccc agcacaggcc cggaagatca tcaagcagcc aggagccagt ctggcgagaa
1681 gggaaggcgg ctctgatctg gaaacgatgc cggatccctt tgatgattgc ttctctgaag
1741 aggccccaa caccaccaag cacaagctgt catcetttet gttcagttac ttgtcggtcc
1801 agaacaggag gaagacaacg cggtccctca gctgcaacag tgtgcctatg agtgcccaga
1861 agtcactccc cgcagacgct tcactgaaga atgggggctc cttccgggcc agaatctttt
1921 ccgggttccc agaacaaatg atgatgatga agaaaggtgc cttcaaaaag ctgatcaagt
1981 totacagogt coccagettt cotgaatgca gttotoagtg tgotogcoag ctacogtgct
2041 gccccctgga ggccatggtg tagagtcctc aatcagaatg caagggtgcc tgtgcttcag
2101 ggagttgggg aaccetegaa attgeetgea gtttgtgtge ttattatgtg tgtgtgeate
2161 ttgagggaag caagcccatt attttgatca taacctcaca gggtcttcgt gatccacaac
2221 agattgtaac tgggaagttt aagcgggcat gctccagagg ttgcaggcgc ttgtgtgata
2281 gaaggggctg agacggtggc atgctgttaa gcttgtaatg tgaaaaacaa cttagaaata
2341 aattgtgctt atatctaaaa aaaaaaaaa a
```

(2) INFORMATION FOR SEQ ID NO: 2876:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2876:

1	cttccacctc	ctgcgtgtcc	atctgtgaga	aggagccaga	gcccaaggga	gatgatggag
61	cctgaggagt	acagagagag	agggagagag	atggtggatt	acatctgcca	gtacctgage
121	actgtgcggg	agagacgtgt	gacgccagac	gtgcagcctg	gctacctgcg	ageceagetg
101	cctgagagtg	ctcctgagga	ccccgacagc	tqqqacaqca	tctttgggga	cattgaacga
241	atcatcatgc	ctggggtggt	acattggcag	agcccccata	tgcacgccta	ctacccagec
301	CLCACCTCTT	ggccctccct	gctaggagac	atgctggctg	atoccatcaa	ctacttagga
201	ttcacctggg	catccagccc	tgcgtgtaca	gagctggaga	tgaacgtcat	ggactggttg
421	gcaaaaatgc	tgggacttcc	agagcacttc	ttqcaccacc	accccagcag	ccagggggga
401	ggcgtcctgc	agagcacggt	cagtgaatcc	actttgattg	ccctactaac	agcaaggaag
541	aacaaaatcc	tggaaatgaa	aacgtctgag	cccgatgctg	atgagteetg	cctaaatgcc
901	cgactcgtgg	cctatgcctc	tgaccaggct	cactcctctg	tagaaaaaggc	tagtttgatt
ρρΙ	tcccttgtga	agatgaaatt	tctgcctgtg	gatgacaact	tctcactccg	aggggaagct
/21	cttcagaagg	ccatcgagga	agacaagcag	caaaacttaa	tacccatctt	tatctataca
181	acactaggga	ccactggggt	ctgtgcattt	gactgcctgt	cagagetggg	ccccatctgt
041	gcccgtgagg	ggctgtggct	ccacatcgat	gctgcttatg	caggcactgc	cttcctatac
901	cccgagttcc	gggggtttct	gaaggggatt	gagtatgccg	actccttcac	ctttaatcct
901	tccaagtgga	tgatggtgca	ttttgactgt	actgggttct	gggtcaagga	caagtacaag
1021	ctgcagcaga	ccttcagtgt	gaatcccatc	tacctcaggc	atoccaacto	aggegtagee
TOOT	accgaettea	tgcactggca	gateceetq	agccgacggt	ttcactctat	taaactctgg
1141	ttegtgatte	ggtccttcgg	ggtgaagaat	cttcaagcac	atgtcagaca	tggtactgaa
1201	atggctaaat	attttgaatc	tctggtcaga	aacqaccctt	cctttgaaat	tectoccaao
1701	aggcaccttg	gcctggtggt	ttttcgtcta	aaqqqtccta	attotctcac	agaaaatgtg
1321	ttaaaggaaa	tagctaaagc	tggccgtctc	ttcctcatcc	cggccactat	ccaggacaag
TOOT	ttaatcatcc	gtttcactgt	gacatcccag	tttaccacta	gggatgacat	cctgagagac
T44T	tggaatetea	ttcgagatgc	tgccactctc	atcctgagtc	agcactgtac	ttcccaaccc
1201	agccctcggg	ttgggaacct	catctcccaa	atcaggggtg	ccagageetg	agectataga
1901	acgrecette	agtctgtcag	tqqqqcaqqa	gatgatccag	tecaggecag	gaagatcatc
1021	aagcagcctc	agcgtgtggg	agccggtccc	atgaaaaggg	aaaatggcct	ccatcttgaa
1001	accetgetgg	acccagttga	tgactgcttt	tcagaagagg	ccccagatgc	caccaagcac
1/41	aagctgtcct	ccttcctgtt	cagttacttq	tctqtqcaqa	ctaagaagaa	gacggtgcgc
TOOT	teceteagtt	gcaacagtgt	gccagtgagt	gctcagaagc	cactocccac	agaggeetet
1901	grgaagaarg	ggggctcctc	cagggtcaga	atcttttcca	ggtttccaga	agacatgatg
1921	atgetgaaga	aaagtgcctt	caaaaaactc	atcaaattct	acagcgtccc	cagettteet
TAGT	gaatgcagct	ctcaatgtgg	actccaqctq	ccctattacc	ctctgcaggc	catggtttag
2041	acacagggcc	ttcagccaga	gtctgaggat	atacttcagg	gactctgtga	acccctcaca

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2101 attgtatgcc aactttgtgt gcttatgtgt acatgcattt ttcttggggc gagttcataa 2161 ttttaatcaa attctcatag gggttcatga cccacaatag gatacaaacg aagagtttaa 2221 gccagcatga tccagatggg ttcagcagtc tggtcagtga gaaagggccg agggtagaca 2281 ggcagcttct gtggtcagc ttgtgacatg atatataaca cagaaataaa ttatgcttgt 2341 ccctgaaaca aaaaa
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- (2) INFORMATION FOR SEQ ID NO:2877:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2396 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2877:
- 1 agtgcgcagg actggcaaga gggaagccgg gctgctccac gcctttcacg ccttccacct 61 cctgcgtgtc catctgtgag aaggagccag agcccaaggg agatgatgga gcctgaggag 121 tacagagaga gagggagaga gatggtggat tacatctgcc agtacctgag cactgtgcgg 181 gagagacgtg tgacgccaga cgtgcagcct ggctacctgc gagcccagct gcctgagagt 241 gctcctgagg accccgacag ctgggacagc atctttgggg acattgaacg aatcatcatg 301 cctggggtgg tacattggca gagcccccat atgcacgcct actacccagc cctcacctct 361 tggccctccc tgctaggaga catgctggct gatgccatca actgcttggg attcacctgg 421 gcatccagcc ctgcgtgtac agagctggag atgaacgtca tggactggtt ggcaaaaatg 481 ctgggacttc cagagcactt cttgcaccac caccccagca gccagggcgg aggcgtcctg 541 cagcagacgg tcagtgaatc cactttgatt gccctgctgg cagcaaggaa gaacaaaatc 601 ctggaaatga aaacgtctga gcccgatgct gatgagtcct gcctaaatgc ccgactcgtg 661 gcctatgcct ctgaccaggc tcactcctct gtggaaaagg ctggtttgat ttcccttgtg 721 aagatgaaat ttctgcctgt ggatgacaac ttctcactcc gaggggaagc tcttcagaag 781 gccatcgagg aagacaagca gcggggcttg gtgcccgtct ttgtctgtgc aacactaggg 841 accactgggg totgtgcatt tgactgcctg tcagagctgg gccccatctg tgcccgtgag 901 gggctgtggc tccacatcga tgctgcttat gcaggcactg ccttcctgtg ccccgagttc 961 cgggggtttc tgaaggggat tgagtatgcc gactccttca cctttaatcc ttccaagtgg 1021 atgatggtgc attttgactg tactgggttc tgggtcaagg acaagtacaa gctgcagcag 1081 accttcagtg tgaatcccat ctacctcagg catgccaact caggcqtggc caccgacttc 1141 atgcactggc agatccccct gagccgacgg tttcgctctg ttaaactctg gttcgtgatt 1201 cggtccttcg gggtgaagaa tcttcaagca catgtcagac atggtactga aatggctaaa 1261 tattttgaat ctctggtcag aaacgaccct tcctttgaaa ttcctgccaa gaggcacctt 1321 ggcctggtgg tttttcgtct aaagggtcct aattgtctca cagaaaatgt gttaaaggaa 1381 atagctaaag ctggccgtct cttcctcatc ccggccacta tccaggacaa gttaatcatc 1441 cgtttcactg tgacatccca gtttaccact agggatgaca tcctgagaga ctggaatctc 1501 attcgagatg ctgccactct catcctgagt cagcactgta cttcccaacc cagccctcgg 1561 gttgggaacc tcatctccca aatcaggggt gccagagcct gggcctgtgg aacgtccctt 1621 cagtctgtca gtggggcagg agatgatcca gtccaggcca ggaagatcat caagcagcct 1681 cagcgtgtgg gagccggtcc catgaaaagg gaaaatggcc tccatcttga aaccctgctg 1741 gacccagttg atgactgctt ttcagaagag gccccagatg ccaccaagca caagctgtcc 1801 tccttcctgt tcagttactt gtctgtgcag actaagaaga agacggtgcg ctccctcagt 1861 tgcaacagtg tgccagtgag tgctcagaag ccactgccca cagaggcctc tgtgaagaat 1921 gggggctcct ccagggtcag aatcttttcc aggtttccag aagacatgat gatgctgaag 1981 aaaagtgeet teaaaaaaet eateaaatte taeagegtee eeagetttee tgaatgeage 2041 teteaatgtg gaeteeaget geeetgttge eetetgeagg ceatggttta gaeacaggge 2101 cttcagcaga gtctgaggat atacttcagg gactctgtga acccctcaca attgtatgcc 2161 aactttgtgt gcttatgtgt acatgcattt ttcttggggc gagttcataa ttttaatcaa 2221 attctcatag gggctcatga cccacaatag gatacaaacg aagagtttaa gccagcatga 2281 tccagatggg ttcatcagtc tggtcagtga gaaagggccg agggtagaca ggcagcttct 2341 gtggttcagc ttgtgacatg atatataaca cagaaataaa ttatgcttgt ccctga
- (2) INFORMATION FOR SEQ ID NO:2878:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40298 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2878:
 - 1 gtaagtatet teeetetgtg getaggaaga caaggaatae attttaaat gteteetaaa
 - 61 gcaaggacct gaaaccagct ctatgggatt attcttgttc ctctttggtc aatgcagaga
 - 121 catgggaaga accaccaaag gtcatgaggg tctcttccag ggatccctgg acattgcctt
 - 181 tcccagtggt gtgacaagag ttagaggtgg cctaccttgc ctcctgtcct aggaggcgac
 - 241 agtaggagag ccttcggttt tctcatcctc ttacttgtat gttgaacttt acttaatgca
 - 301 ggctatatcc aaaatacagt gtgaattagg ctagaataga aatgctttct attctacctt

		aaagggtagg				
		actgtttaat		-		
		gtattcggtg	•			-
		gttctaggct				
601	aaggcaaggg	tgaggctttg	tagactttcc	cattcggagg	taatgatgcc	tccttcagcc
661	ccacttcttc	aaactgactc	cacctgctcc	catctccaca	cccctccgtt	tctcatttag
721	ccaaagcaca	tcatccttgc	agcccaccac	tcagcttggc	caggtgcgag	acatctttcc
781	ccacttcata	cctccctcc	ggccaggtga	tgtttgcctc	ctcag	
1	gatcacctga	agtcaggagt	tcgagaccag	cctgaccaac	atggagaaac	cccgtctcta
61	ctaaaaatac	aaaattagtt	gggcatggtc	gtgcatgcct	gtaatcccag	ctactcagga
		ggagtatcac				
		tccagccttg				
		aacccatgtg		_	_	
	_	caaacatttt		_	_	
		ggccattttg			-	
		actaatattt				
		actttttatt				
		tttttttt	-	-		
		ggcatgatct				
	-	ggcctcctga			-	-
	-	ttttagtaga				
		gtgatccacc				
		agcctctatg				
		gtctgacacc		-		
		ccttctgttt			_	-
	-	gtgagataaa		_		
		cttgttttta				
	-	tttaaaggat		_	_	
		cacagcctcc	_	_	_	
1261	ggcatcttaa	gagtcaataa	tagcaaagtt	gagagaggca	gcttggtgtg	gtggaaagaa
1321	catgggtatt	ggatccgata	gccttaggtt	caaatcctgg	cttcttcagt	aattatcttc
1381	tgtaatttta	gccaagtgtt	taatttcctt	gagactcagt	ttctcgaaga	tgaagtagaa
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1501	gcatagtgct	caggacatag	ttaacattct	taaatatatg	ttgaggaatg	gtgtgcacct
1561	gaaaattcct	ataaaagctg	caaatataca	tgccttttga	tccagctgtt	ccacttcagg
1621	atatccttac	tcatgtgtgc	aaagcaattt	tttgtagaaa	tgtttgtaat	agcaaaagac
1681	tggaaacaac	tgaaatgtac	actgctaggg	aactgattac	tctctggtat	gtccacgcaa
1741	tgcagctcta	tgaaaaaaag	gagtacgtgt	caagatatat	taacaaataa	agtacagaat
1801	attgtactgt	acttatccct	tttgtgttta	acaaaagaaa	gaaaaggaga	aaaattagaa
		atttgccttt		_		_
	_	ttctgtcacc			_	
		caggctcaag				-
		ccatgcccag		-		
		aggctggtct				
		tgggattaca	-		-	
		atagattaga				
	-	catttatctt	_			
		attgaaccat				
		ttcttaattt				
		aatagcatat				
		tcagttaacc				
		agatctgact				
		tttctttcca				
		tttctgatct				
		ttgctccttt		_	_	_
		gcttcaggat				
		aattttcttc				
		caaaatagaa				
		ttaacttagg				
		tacgtctttt				
		atccactatg				
3181	agttgaaaac	tataaaaagg	aaccaaataa	aaattctttt	tttgccccca	taaggcagaa

3241	gaaatacaaa	ttctacaact	gaaaaaatat	aatatctgat	attaagaaat	caataaatgg
		tagctacatt				
3361	tcagaaacaa	gaagatggaa	aataaagaat	acaatgctat	ttatatttat	atataatagt
3421	atatataata	cacaagttta	acataggact	gcatttgcag	aatagaagag	agataatggg
3481	gagatagcaa	cacttggaga	aaaaataacg	aacactttt	tatttaaagt	gcctaacttg
3541	gctgggtgtg	gtggctgaca	cctgtaatcc	caacactttg	ggaggctgag	atgggtggat
3601	catttgagcc	caggagttca	agaccaactt	gggtaacatg	gcgaaacccc	atctctacag
		agaaataaaa				
		ggaggtgggg				
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10241 CtgCagagCa CggtCagtga atccactttg attgccctgc tggcagcaag gaagaacaa	
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18301 gradectard cororgades ggraditge cogacgong acadecette gggttggtg	10
10421 tiggettetg gaatettggt cettgageaa ttttttteta gaegtgagta egetggggt	+
10401 Clydyddgot Cagacatggg agottgtoto cagcaactgt agggaagaca agottocaa	+
10341 gatcatattt ggttcccgag tcttaggctt cagcagtttc tggggggtga tcattccag	.~
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10041 tiggicagaat toaggtaagt aacatgotgo acacaaaago agaaaggtoo toocataca	~
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(2) INFORMATION FOR SEQ ID NO:2879:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1327 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2879:
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(2) INFORMATION FOR SEQ ID NO:2880:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1601 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2880:
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(2) INFORMATION FOR SEQ ID NO:2881:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 4181 base pairs
     (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2881:
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0.1	aucaggagti		i ecceatia	: tttqtcaata	, taaqqqqqqq	. ~~+~++-
,,,	- uauty c c c	a Lactatete	. tuacadaaat	. actatrarac	· atattaataa	
201	accucacai	- yolaaalqac	i dactideace	: adddaacttc	· cccataatta	· + a + a a a a
-021	CCCaaaccc	ı yadalılıç	a atgagagtag	I acadtaattt	· caaatcaatc	. ~~~~~
T 0 0 T		z ycaaatqqci	. Cdadataatt	: adctacacat	ttcacaaaaa	
	cagacccgg	, ccyqqcacac	i todctcatoo	: ctotaatctc	accact ctcc	~~~~~~
	- gggcggatt	- aladuulcac	i dadarcdada	1 CC2+CC+cc+	+	
	caacaaaa	- acaaaaaaaa	i ataaaaaaa	: ttaaccaaaa	ataataaaa	~~~~~
		- ccaaaacacı	. uauocandac	I AATMMATEMS	20+000000	
-00-	aggigagett	, ayallalucc	: actocachec	' adoctadaca	2020200000	
1441	aaaaaaaaa	aagaagtcac	ratoctaacct	caaccctatt	taagagegag	tagatgaaag
1501	aaaggtacaa	atggctttta	catacetece	ttctccctact	caacagatta	gtgtgtgtgt
1561	gtgtatttac	acacacatet	Catataagga	. cottocciga	cattttgtat	gtgtgtgtgt catccctgag
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1681	cctccagact	tacadadaca	tottotato	tgtgcccaga	ccacctcctt	agcctcgcac
1741	accadactta	. cacagggcac	collectatge	: ccatcccaag	tatagctgaa	ccttccaagg
1801	gaaactcaaa	gigilaagia	ccaagtacgc	: aaagattaat	aaaacaatgt	cctgtttcag
	gg wg c c c a a a	. yerqariçqq	Cauducator	Taratacata		2 2 2 4 2 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4
	300990000	, caytyayyta	aucacaaoor	aadatdddaa	20222000220	~~~~~++
	-agecteact	Cayayiccay	aaccccraac	ctacctaata	0000+~~+~~	
	ggaacaccca	. yuudaaaa	udddttadac	ctacaaacta	2020202020	
–			uuauaaauu	acaadaadda	M222CCC2~~	+
		- Ctttttqqta	ucadaacica	пасапаассс	ttaaaaaaaa	
	ggaccaqt	aaaccccaaa	LIAUCTCCAT	actagtttct	2002000	
	cegacicica	gguullitada	ttgacactcc	ctdaadadtt	TOTAL PART OF THE	200000
		Coactaget	cacoctooct	dddccccaad	atatttaaaa	
	,-,-,-,-,	- CCCCaacacaca	ucaauci can	aacctactac	C20+00000++	
	-gacgeaqua	ayyuuaayaa	CLAUCAGAAC	actorassta	000+000+	
	a-ccaacy	CLUCLUYUCA	uucaaaaaa	caddtdctat	tocotot+~~	~~~
		ugggaggatg	autuattion	CCTGactata	and a a a a a a a a	~~~~~~
	ageceaggee	LUCTUCACCE	addicadidt	teeteecaat	+	
~ . •	aggedadagee	CCLULUUAAU	uuuaaaaaraa	addctcaatc	2220021000	~~~~~~
2761	ccagatatct	gaagaagtcc	tgatgtcact	gccccggtcc	ttaaaaa	cagagacttt
2821	tectegeege	aacccaacto	actcccctta	ccttctacac	Teccedagge	agagcaacac
2881 a	acacacac	acacacacaa	atccaacaca	acactactaa	acacacacac	acacacacac
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3061 á	gaagettac	aactaaaaga	220totocac	cccatctttt	aaactttaga	ctccagccac
3121	tagagatag	tatacaataa	aactctaagg	ccaatttaat	ccaaggtttc	attctatgtg
3181 t	atacadata	atataaaata	ggrgaggaaa	ccaaattctc	agttggcact	ggtgtaccct
,	-g-acagging	acytaacatc	LCLUEGCCEC	agretegetes	At 2 + 2 2 2 2 + 2	
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	- c c u c c c u c c	CCCCCCaaacc	acaderdaga	TAAAAAAAA	at ~ a ~ a ~	and the second s
	Joocgagaac	CCLaaluana	I COOOGTAAA	MM 2MMCT MM 2	20205	1
	- g g - u g	quadecault	LCCCOGGGGGGG	aaaat aa aa	aaataattaa	
		CCaccccccc	ditiliace	addaaaacta	20000000	
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		CCCattutal.	I CI OGAATOO	acaatttata	0 2 0 0 t 0 2 2 t	A
		gagaaccac	auchaaaaaa	CICIACACac	20222222	
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	5 - 5 - c - g - g - g - c	aaccttgatt	ULUUC EFFF	aatmaatmaa .	anaaataaa	
		gggacagaga	uutaaaaarc	Tacacatcac .	~~~~++~~+~	
4021 a	aaccacaaq	acagactton	Jagaadaaddc Jagaadaaddc	atgcacaget	gygurigete	Ligcaaaacc
4081 q	tcctcctga	ctaggataaa	aaccaaacca	ggccagggca	caycactgct	uugttgcctg
4141 a	cccacttcc	Caddcaacct	acctaacata	ggccagggca (cttcgagatc (occagtotga (gaacagctgc
			guctadualg	ciccyagate 1	L	
/O\ T\	ODMARTON -					

(2) INFORMATION FOR SEQ ID NO:2882: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1314 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2882:

1 ggggggggg atttagagac ttgctcttgc actaccaaag ccacaaagca gccttgcaga 61 aaagagaget ceatcatgee tggeteagea etgetatget geetgetett aetgaetgge 121 atgaggatca gcaggggcca gtacagccgg gaagacaata actgcaccca cttcccagtc 181 ggccagagcc acatgctcct agagctgcgg actgccttca gccaggtgaa gactttcttt 241 caaacaaagg accagetgga caacatactg ctaaccgact cettaatgca ggaetttaag 301 ggttacttgg gttgccaagc cttatcggaa atgatccagt tttacctggt agaagtgatg 361 ccccaggcag agaagcatgg cccagaaatc aaggagcatt tgaattccct gggtgagaag 421 ctgaagaccc tcaggatgcg gctgaggcgc tgtcatcgat ttctcccctg tgaaaataag 481 agcaaggcag tggagcaggt gaagagtgat titaataagc tccaagacca aggtgtctac 541 aaggccatga atgaatttga catcttcatc aactgcatag aagcatacat gatgatcaaa 601 atgaaaagct aaaacacctg cagtgtgtat tgagtctgct ggactccagg acctagacag 661 agotototaa atotgatoca gggatottag otaacggaaa caactoottg gaaaacotog 721 tttgtacctc tctccgaaat atttattacc tctgatacct cagttcccat tctatttatt 781 cactgagett etetgigaac tatttagaaa gaageecaat attataattt tacagtattt 841 attatttta acctgtgttt aagctgtttc cattggggac actttatagt atttaaaggg 901 agattatatt atatgatggg aggggttett cettgggaag caattgaage ttetatteta 961 aggctggcca cacttgagag ctgcagggcc ctttgctatg gtgtcctttc aattgctctc 1021 atccctgagt tcagagctcc taagagagtt gtgaagaaac tcatgggtct tgggaagaga 1081 aaccagggag atcetttgat gateatteet geageagete agagggttee cetaetgtea 1141 tecceagee getteateee tgaaaactgt ggeeagtttg ttatttataa ecacetaaaa 1201 ttagttctaa tagaactcat ttttaactag aagtaatgca atteetetgg gaatggtgta 1261 ttgtttgtct gcctttgtag cagcatctaa ttttgaataa atggatctta ttcg

(2) INFORMATION FOR SEQ ID NO:2883:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 7207 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2883:

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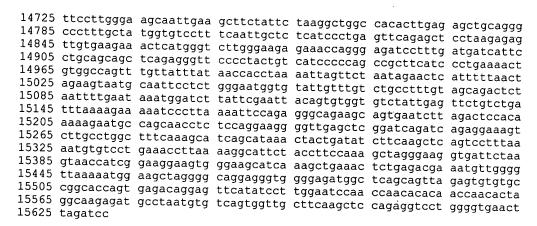
2161 ttttgctggc taggacaaaa gtctgtggtc tctgcgtagt ctctagatct gggggacaga
2701 aacatactgc taaccgactc cttaatgagg teettecage aaacaaagga ccagetggac
- J - J J - J J - J J J J - J J J J J J
3241 gccacccaac aaatactgtc tcctacagcc cagtcaggcc acatgcatcc agagacacac 3301 acagactaga caggagacta ggtaatcta gagagacgcc tgtccggtgt cgggtctctt
3841 tagaaatagt tcatggtggt tgagattgga gatagacaag aagagacact aaaaacagaa 3901 caggtgcctt ggagctctga gagacaaaac ccgagacctg agttcacacc cacacttagc
4321 gegeagaagg agggegggag ctattetgea cetggagtgt gggaacceag caaatggtgt 4381 gaceteetet geeagttaga aagceaccae etcagtaca tttgtttet geaaagegte 4441 tetggeagtt tetagaatgae tgetgagatt
4861 attocatgac agcaggtcag agctgcaggg tgaggactgc ctacacactc aaaacataaa 4921 aaaaaaaaaa aaaaaacacc aaccatttcc ctgctatctc tatcactgcc ctgcttacaa 4981 actgctcct ctgcatctt tgaataaaaa
5401 atattccagt aagttattt gctctcattg ttttaacaaa agaacccaac aacaccaaat 5461 ctttgcatac cttgttcgat tggagaattt taatgttttt catttatcat tgtaaaaccg
6061 agctaacgga aacaactcct tggaaaacct ggtttgtaac aaatctgatc cagggatctt
6181 aagaageeca atattataat tttacagtat ttattatttt taacetgtgt ttaagetgtt
5

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6241 tocattgggg acactttata gtatttaaag ggagattata ttatatgatg ggaggggttc
  6301 ttccttggga agcaattgaa gcttctattc taaggctggc cacacttgag agctgcaggg
  6361 ccctttgcta tggtgtcctt tcaattgctc tcatccctga gttcagagct cctaagagag
  6421 ttgtgaagaa actcatgggt cttgggaaga gaaaccaggg agatcctttg atgatcattc
  6481 ctgcagcage tcagagggtt cccctactgt catececcag ccgettcate cetgaaaact
  6541 gtggccagtt tgttatttat aaccacctaa aattagttet aatagaacte attittaact
  6601 agaagtaatg caatteetet gggaatggtg tattgtttgt etgeetttgt ageagaetet
  6661 aattitgaat aaatggatet tattegaatt acagtgtggt gtetattgag tietgtetga
  6721 tttaaaagaa aaatccctta aaattccaga gggcagaagc agtgaatctt agactccaca
  6781 aaaagaatgo cagcaacete tecaggaagg ggttgagete ggatcagate agaggaaagt
  6841 cttgcctggc tttcaaagca tcagcataaa ctactgatat cttcaagctc agtcctttaa
  6901 aatgtgteet gaaacettaa aaggeattet acetteeaaa getagggaag gtgattetaa
  6961 gtaaccatcg gaaggaagtg ggaagcatca aagctgaaac tctgagacga aatgttgggg
  7021 ttaaaaatgg aagctagggg caggaggtg gggagatggc tcagcagtta gagtgtgtgc
  7081 cggcaccagt gagacaggag ttcatatcct tggaatccaa ccaacacaca accaacacta
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  7201 tagatcc
 (2) INFORMATION FOR SEQ ID NO:2884:
    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 15631 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2884:
    1 gatccccaga gactttccag atatctgaag aagtcctgat gtcactgccc cggtccttcc
   61 ccaggtagag caacacteet egtegeaace caactggete ceettacett ctacacacac
  121 acacacaca acacacaca acacacaaa acacacaaat ccaagacaac actactaagg
  181 cttctttggg agggggaagt agggataggt aagaggaaag taagggacct cctatccagc
  241 ctccatggaa tcctgacttc ttttccttgt tatttcaact tcttccaccc catctttaa
  301 actttagact ccagccacag aagcttacaa ctaaaagaaa ctctaaggcc aatttaatcc
  361 aaggtticat totatgtgot ggagatggtg tacagtaggg tgaggaaacc aaattotcag
  421 ttggcactgg tgtacccttg tacaggtgat gtaacatctc tgtgcctcag tttgctcact
  481 ataaaataga gacggtaggg gtcatggtga gcactacctg actagcatat aagaagcttt
  541 cagcaagtgc agactactct tacccacttc ccccaagcac agttggggtg ggggacaget
  601 gaagaggtgg aaacatgtgc ctgagaatcc taatgaaatc ggggtaaagg agcctggaac
  661 acatectgtg acceegectg teetgtagga agecagtete tggaaagtaa aatggaaggg
  721 ctgcttggga actttgagga tatttagccc accccctcat ttttacttgg ggaaactaag
  781 gcccagagac ctaaggtgac tgcctaagtt agcaaggaga agtcttgggt attcatccca
  841 ggttgggggg acccaattat tictcaatcc cattgtattc tggaatgggc aatttgtcca
  901 cgtcactgtg acctaggaac acgcgaatga gaacccacag ctgagggcct ctgcgcacag
  961 aacagetgtt etececagga aateaaettt ttttaattga gaagetaaaa aattatteta
 1021 agagaggtag cccatcctaa aaatagctgt aatgcagaag ttcatgttca accaatcatt
 1081 titgcitacg atgcaaaaat tgaaaactaa gtttattaga gaggttagag aaggaggagc
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1201 ggcctccctg agcttacaat ataaaagggg gacagagagg tgaaggtcta cacatcaggg
1261 gettgetett geaaaaccaa accacaagae agaettgeaa aagaaggeat geacagetea
1321 gcactgc
   1 aaaccacaag acagacttgc aaaagaaggc atgcacagct cagcactgct ctgttgcctg
  61 gtcctcctga ctggggtgag ggccagccca ggccagggca cccagtctga gaacagctgc
 121 acceaettee caggeaacet geetaacatg ettegagate teegagatge etteageaga
 181 gtgaagactt tetttcaaat gaaggatcag etggacaact tgttgttaaa ggagteettg
 241 ctggaggact ttaagggtta cctgggttgc caagcettgt ctgagatgat ccagttttac
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 361 tecetggggg agaacetgaa gaceeteagg etgaggetae ggegetgtea tegatttett
 421 ccctgtgaaa acaagagcaa ggccgtggag caggtgaaga atgcctttaa taagctccaa
 481 gagaaaggca tctacaaagc catgagtgag tttgacatct tcatcaacta catagaagcc
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1 agatettgta aactgtagaa tgcaccata caattgaat c
1 agatettgta aactgtagaa tgcaccetce aaaatetatt tgcataagca cacacacaca 61 cacacacaca cacacacaca cacacacaca cacacacaca cacacacaca ca
61 cacacacaca cacaccccag cagttettet additetatt tgcataagca cacacacaca 121 gaaacttact ggggggaget tectospass ethertal tectotgcag ctaaagtgat
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1381 aggtgagetg agatcatgee actgeactee agectgggea acagageggg cagagettge 1441 aaaaaaaaaa aagaagteag atgetaaget
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1621 teactetee tetecttetg aatgettace tgtgeceaga ceaceteett ageetegeae
1741 gccagacttg gtgctaagta ccaagtacgc aaagattaat aaaacaatgt cctgttcag
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3601 attteteaat eccattgtat tetggaatgg geaatttgte eacgteaetg tgacetagga

3661 acacgcgaa	t gagaaccca	c agctgaggg	c ctctacaca	C 20220200t	~ ++-+
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asar egegeeggg	a aacciligal	i ataacete	T aatmaatma:	a mammonton	- + ~
o o o a a cacaaaay	y yyyacayay	a dotoaador	C tacacatca	T GGGC++GG+	2 ttaasss
addccacaa	y acayactty	c aaaadaadd	C atocacaoci	Cadcactact	- atatta.
- vor gecelely	a ceqqqqeqa	u daccadece	a daccadadc:	a cccaatata	a daacadctdc
1111 acceaction	- cayycaacc	t dectaacat	g cttcgagata	~ +	
<u> </u>	g atttagaga	c ttactctta:	c actaccaaac	T CCACAAAGC	a gccttgcaga
or adagagage	- Cualcalge	c taactcaac	a ctoctatoci	- acctactet	
algayyatta	u ycaggggcc	a qtacaqccq	o daadacaata	actoracco:	attanante
Tor ggccagagc	- acatgetee	agagetgeg	a actacettea	accedatas:	~ ~~~++~++
E 11 Cadacaaay	, accayclygo	: caacatact	o ctaaccdact	· ccttaataca	~~~~+++~
ggccacccg	, yttyccaaq	: Cttatcoca:	a atgatecagt	- tttacctact	2022040040
our ceceaggeag	, ayaaycalqo	i cccadaaat	C aaggaggatt	traatteret	· aaataaaaa
TET CLYddydccc	, icaygatgco	i detagaaca	o totoatodat	ttctcccctc	· + ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
101 agcaaggcag	, Lyyaycaygi	. daadadt.dai	t tttaataadd	tecasassas	
orr daggecatge	i algaalliga	: catcttcatc	: aactgcatac	r aadcatacat	antantana
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1081 aaccagggag	atcotttgat	. caagagagtt	. grgaagaaac	tcatgggtct	tgggaagaga
cocceaque	uutteateen	Traaaactrat	~ ~~~~~~ ~	++-+	
TEVE CLUGCICLAA	Lavadeleat	EFFFAACTAC	, aantaatnoa	2++cc+ c+ ~~	A
1261 ttgtttgtct	gcctttgtag	cagcatctaa	i ttttmaataa	attoctotgg	gaatggtgta
1 cagtcaggag	agagggcagt	gagggtccat	actaactaaa	tettangest	ctcg
or coageocoty	altiatagea	graratecae	! acctaaaaca	teageteases	~~~~~~++
TET CECEGGEGG	Luudaacuua	Carcccaaaa	222227222	220202224	
-or gagaaagtga	aayyyacyya	ggcagcttgt	- ccccttccct	atacttacta	ataataa
woodagootg	guactyatty	uaucaucaur.	CCTTGAGTCA	attocattoc	222++++
our agailette	Cocquequad	agtgtcagga	udadaddcca	aaccccatta	2 t 2 2 t 2 2 t 2 t
gccagccact	ycatcagata	agacgagata	accccaatt	cctattataa	00000b
graggeaacce		uucadaceen	daaccctdtd	CC22CC22CC2	+ +
undegacyca	ggaaggacag	CCCuudaatta	Taccctctac	ataaatataa	++++-+
VII goudacactic	CCCGGCCaac	addacdrota	acattacccc	cccccttccc	+
our aucuggiace	ayyayyacaa	gtagttgcff	acceaaaata	Cagaataaaa	~~~~
TT GACCCCAGGC	gaatqttttt	CCCacccaaa	Ctdaddtadt	200200200	~ ~ + ~ ~ + ~
ggaaggccca	yacacaacca	aduuactacc	agagatetee	cacctatata	+
	CCCCCCaaca	uci acadore	acacottotoo	22 CC C A A A A A A A	
+ cagggccatq	graduuttla	CCCGacagea	Cadadcaadc	ot occorre	·
- v= accagaaccc	LCCCCCCCCCCC	adcedcccca	Carcacacat	210010000	~~+~~+~++
	ggaagaatta	aauauaurna	ddrcrdaaga.	222±02000	+ ~ + ~ ~ ~ ~ + +
	aactuaut.uc	Laaddiraact	TCCCAACTCAC	~~~~~~	
==-= ==================================	autuuauuaa	acaarrarr	CTCaatccta	~+~+~++~+	
occurrency	Luallalyau	CLUGGAGTGC	araaraaa	tecananta	~~~~~
1261 tacatagaac	agergreege	taggaaat	acaacttta	gtattgagaa	gctaaaaaga
1321 aaaaaaaatt	tttagcgctt	acaatacaaa	Laaaaatagc	tgtaatgcag	aagttcattc
1381 cgaccagttc 1441 aattaaactc 1501 tttgccagga	aaaaattaca	taatttaaa	aaaaagggaa	aggaaaaaaa	aaaagaaaga
1501 tttgccagga	aggcccact	gaggettagaa	tataaaaaa	gagcctgaat	aacaaaaacc
1501 tttgccagga 1561 acatttagag 1621 ctccatcatg	acttgctct+	gcactaccas	accacacac	yyaccaagaa	caggaggtct
0000000000000000000000000000000000	CCCUUCLCAU	Cacrocrard	CTACATAATA	***	and the second second
	Cautacaucc	uuuaanacaa	raactaaaaa	~~~++~~~~	±
	Ccauaucion	DOACTOCCEE	C2000200+0		
gagacagaa	agecttett	CCLCCCarca	CCTGaaatat	~~~++~+~~+	~~~~
		CICITCITCC	TCCTCTCCCC+	atta=+	
voucegouge	Coccocca	LLLCCAGCAC	CTATTACCCT	t 2220tt 222	
	ucca Luau I. I.	aaacraaacc -	C2444444	~~~~~	
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2161 ttttgctggc	taggacaaaa	gtctqtqatc	tctgcgtagt	ctctagatet :	aggereearg
			gogcage	uyattı (ggggacaga

2221	l ggtttgggg	g tttgaagcad	r caccagcata	gagagettge	: attacaaaac	g tattcccctt
2281	l tcagagete	tggaactggt	atggaggtc	: aaagaaggcag	gagagetate	g caaaacaggc
234.	Littetataa	g ggactccaga	aaqqaaqqqt	: tgacacaggt	: gctcttgaaa	cctdatctda
2401	l ctcatctgaa	a agaagaccgc	ı geetgagtet	aacttctcc	: agtcagttaa	attcantcan
2401	. aagtttttaa	a aaacaactgo	r atcccaagac	r gaaggactti	gatttaactc	caaactctaa
2321	. cactgtcaaa	a tootgttott	: aaaactctcc	: tttccacagt	taccadadea	tttmaattma
2301	. LLacaaatto	c aaaactctac	: aaatqqaaaa	ı qtattcaaat	: gacatgcaca	ttaaatattt
2041	. iccccagtco	: ttgcattcac	: qttctttato	i ttettecaαc	: aaacaaadda	ccaactagac
2/01	. aacatactgo	: taaccgactc	: cttaatgcag	r gactttaagd	r taagagteed	rataaatacta
2/01	. gygagcgacc	: aagcgattag	i qqacqqqacq	r ggaggtgctd	r ottataacaa	r cagagetggg
2021	. icigatgeet	. tgactttcaa	ı aaaqaqaaqt	gagaagacct	: tgactcagca	tategerage
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2941	. ggggatggg	, ggggggtccc	: taqqaacaqq	acagtecate	: aaggttagca	gcaacagatc
2001	accattccag	, taagtcacac	ccaacctctd	atccctgcct	ctagggttac	ttagattacc
2001	. aagccttatc	: ggaaatgatc	caqttttacc	taataaaaat	gatgcccan	ncananaanc
2121	atggcccaga	ı aatcaaggag	catttqaatt	ccctagataa	gaagetgaag	acceteagga
2191	tgcggctgag	, gcgctgtgtg	aqtaqcaqat	acattettee	ccacccccaa	teceettaga
3241	gccacccaac	: aaatactgtc	tcctacagec	cagtcaggc	acatgrater	agagacacac
2201	acagactaga	ı caggagacta	gqtaaatcta	gagagacgcc	tatecaatat	caaatctctt
220T	geleatetgt	: ctctgagcga	atatagaaat	gactttgagg	cactcacaca	traggratter
3421	cgcatagcct	: tcctgttatt	tqtqaqtcat	tataaattat	tagctactcc	cctctctctc
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3541	ccaagcacag	gaaaacattc	atctctttat	ctcatcttt	gggaagcaaa	ttcagtggca
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3721	tettett	tgaataatac	agtcggggca	tctatgtctc	tgaagcgatg	ccttggctgc
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3901	Cagadacayt	tcatggtggt	tgagattgga	gatagacaag	aagagacact	aaaaacagaa
3961	aaggcgtctt	ggagctctga	gagacaaaac	ccgagacctg	agttcacacc	cacacttagc
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4141	CCCCaagtac	cattgaagat catggatgca	gagcaagggc	gictccttcc	tcacacaaca	agatagtttc
4201	tcagcatcga	tttctccct	gaacccaagc	aagaattacc	aatgetetet	tttttcttct
4261	ttttaataag	gtaagtggca	aagggggggg	gagcaaggca	grggagcagg	tgaagagtga
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4381	gacctcctct	gccagttaga	aagccaccac	ctcagttage	yyyaacccag	caaatggtgt
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4001	attccatgac	agcaggtcag	agctgcaggg	tgaggactgc	ctacacactc	aaaacataaa
4321	aaaaaaaaa	aaaaaacacc	aaccatttcc	ctactatete	tateactocc	ctacttacaa
13403	actgctccct	ctggcatctt	tocataacat	tetgeataag	cattatataa	acactaacct
13465	cttaaaaaaa	attaqttqaa	aaggtgccac	cctgaagaca	atactttaaa	gactgaatge
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13393	gactactaca	gtatagttgt	ctctcttctt	tcatttccct	gtccccattt	ctttattata
13643	cataaagtaa	ctggtgtatg	tqcacacaca	tagtgctctc	tctttcttt	ccttttttaa
13/03	actaaatggc	cgatgttctg	ttctaattaa	catcagatgg	agatggtctg	aaaaaaata
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14303	LCCCCacaca	gctccaagac	caaggtgtct	acaaggccat	gaatgaattt	racatettea
14202	tcaactgcat	agaagcatac	atgatgatca	aaatgaaaag	ctaaaacacc	tacaatatat
14423	attgagtctg	ctggactcca	ggacctagac	agagetetet	aaatctgatc	cagggatett
74400	ayctaacgga	aacaactcct	tggaaaacct	catttatacc	tetetecaa	atatttatta
14343	cctctgatac	ctcagttccc	attctattta	ttcactgage	ttctctgtga	actatttaca
14665	tccattccca	atattataat	ctacagtat	ttattattt	taacctgtgt	ttaagctgtt
±4000	ccarryggg	acactttata	ycatttaaag	ggagattata	ttatatgatg	ggaggggttc



- (2) INFORMATION FOR SEQ ID NO:2885:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3.632 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2885:

1 aaagagctgg aggcgcgcag gccggctccg ctccggcccc ggacgatgcg gcgcgcccag 61 gatgctgccg tgcctcgtag tgctgctggc ggcgctcctc agcctccgtc ttggctcaga 121 cgctcatggg acagagctgc ccagccctcc gtctgtgtgg tttgaagcag aatttttcca 181 ccacatcete cactggacae ccateccaaa teagtetgaa agtacetget atgaagtgge 241 gctcctgagg tatggaatag agtcctggaa ctccatctcc aactgtagcc agaccctgtc 301 ctatgacett accgcagtga cettggacet gtaccacage aatggetace gggecagagt 361 gegggetgtg gacggeagee ggeactecaa etggacegte accaacace gettetetgt 421 ggatgaagtg actctgacag ttggcagtgt gaacctagag atccacaatg gcttcatcct 481 cgggaagatt cagctaccca ggcccaagat ggcccccgcg aatgacacat atgaaagcat 541 cttcagtcac ttccgagagt atgagattgc cattcgcaag gtgccgggaa acttcacgtt 601 cacacacaag aaagtaaaac atgaaaactt cagcctccta acctctggag aagtgggaga 661 gttctgtgtc caggtgaaac catctgtcgc ttcccgaagt aacaagggga tgtggtctaa 721 agaggagtgc atctccctca ccaggcagta tttcaccgtg accaacgtca tcatcttctt 781 tgcctttgtc ctgctgctct ccggagccct cgcctactgc ctggccctcc agctgtatgt 841 gcggcgccga aagaagctac ccagtgtcct gctcttcaag aagcccagcc ccttcatctt 901 catcagccag cgtccctccc cagagaccca agacaccatc cacccgcttg atgaggaggc 961 ctttttgaag gtgtccccag agctgaagaa cttggacctg cacggcagca cagacagtgg 1021 ctttggcage accaagecat ccctgcagae tgaagagece cagtteetee teeetgacee 1081 tcaccccag gctgacagaa cgctgggaaa cggggagccc cctgtgctgg gggacagctg 1141 cagtagtggc agcagcaata gcacagacag cgggatctgc ctgcaggagc ccagcctgag 1201 ccccagcaca gggcccacct gggagcaaca ggtggggagc aacagcaggg gccaggatga 1261 cagtggcatt gacttagttc aaaactctga gggccgggct ggggacacac agggtggctc 1321 ggccttgggc caccacagtc ccccggagcc tgaggtgcct ggggaagaag acccagctgc 1381 tgtggcattc cagggttacc tgaggcagac cagatgtgct gaagagaagg caaccaagac 1441 aggetgeetg gaggaagaat egecettgae agatggeett ggeeceaaat tegggagatg 1501 cetggttgat gaggcagget tgcatccacc agccetggec aagggetatt tgaaacagga 1561 tectetagaa atgaetetgg ettecteagg ggeeceaacg ggaeagtgga accageecae 1621 tgaggaatgg tcactcctgg ccttgagcag ctgcagtgac ctgggaatat ctgactggag 1681 ctttgcccat gaccttgccc ctctaggctg tgtggcagcc ccaggtggtc tcctgggcag 1741 ctttaactca gacctggtca ccctgcccct catctctagc ctgcagtcaa gtgagtgact 1801 cgggctgaga ggctgctttt gattttagcc atgcctgctc ctctgcctgg accaggagga 1861 gggccctggg gcagaagtta ggcacgaggc agtctgggca cttttctgca agtccactgg 1921 ggctggccca gccaggctgc agggctggtc agggtgtctg gggcaggagg aggccaactc 1981 actgaactag tgcagggtat gtgggtggca ctgacctgtt ctgttgactg gggccctgca 2041 gactctggca gagctgagaa gggcagggac cttctccctc ctaggaactc tttcctgtat 2101 cataaaggat tatttgctca ggggaaccat ggggctttct ggagttgtgg tgaggccacc 2161 aggctgaagt cagctcagac ccagacctcc ctgcttaggc cactcgagca tcagagcttc 2221 cagcaggagg aagggctgta ggaatggaag cticagggcc ttgctgctgg ggtcatttt 2281 aggggaaaaa ggaggatatg atggtcacat ggggaacete eceteategg geetetgggg 2341 caggaagett gteactggaa gatettaagg tatatatttt etggacaete aaacaeatea 2401 taatggattc actgagggga gacaaaggga gccgagaccc tggatggggc ttccagctca 2461 gaacccatcc ctctggtggg tacctctggc acccatctgc aaatatctcc ctctctccaa 2521 caaatggagt agcatccccc tggggcactt gctgaggcca agccactcac atcctcactt 2581 tgctgccca ccatcttgct gacaacttcc agagaagcca tggttttttg tattggtcat

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2641 aactcagccc tttgggcggc ctctgggctt gggcaccagc tcatgccagc cccagagggt
  2701 cagggtigga ggccigtgct tgtgttigct gctaatgtcc agctacagac ccagaggata
  2761 agccactggg cactgggctg gggtccctgc cttgttggtg ttcagctgtg tgattttgga
  2821 ctagccactt gtcagagggc ctcaatctcc catctgtgaa ataaggactc cacctttagg
 2881 ggacceteca tgtttgetgg gtattageca agetggteet gggagaatge agataetgte
2941 egtggactae caagetgget tgtttettat gecagagget aacagateca atgggagtee
  3001 atggtgtcat gccaagacag tatcagacac agccccagaa gggggcatta tgggccctgc
 3061 ctccccatag gccatttgga ctctgccttc aaacaaaggc agttcagtcc acaggcatgg
 3121 aagetgtgag gggacaggee tgtgegtgee atccagagte ateteageee tgeetttete
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 3241 tgccaaagta ctcttaggtg ccagtctggt aactgaactc cctctggagg caggcttgag
 3301 ggaggattcc tcagggttcc cttgaaagct ttatttattt attttgttca tttatttatt
 3361 ggagaggcag cattgcacag tgaaagaatt ctggatatct caggagcccc gaaattctag
 3421 ctctgacttt gctgtttcca gtggtatgac cttggagaag tcacttatcc tcttggagcc
 3481 tcagtttcct catctgcaga ataatgactg acttgtctaa ttcataggga tgtgaggttc
 3541 tgctgaggaa atgggtatga atgtgccttg aacacaaagc tctgtcaata agtgatacat
 3601 gttttttatt ccaataaatt gtcaagacca ca
(2) INFORMATION FOR SEQ ID NO:2886:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1696 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2886:
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   61 gatgagcagc agetgetcag ggctgagcag ggtcctggtg gccgtggcta cagccctggt
  121 gtctgcctcc tcccctgcc cccaggcctg gggcccccca ggggtccagt atgggcagcc
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(2) INFORMATION FOR SEQ ID NO:2887:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1682 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2887:
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(2) INFORMATION FOR SEQ ID NO:2888:
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     (A) LENGTH: 413 base pairs
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     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
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(2) INFORMATION FOR SEQ ID NO:2889:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 3791 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2889:
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(2) INFORMATION FOR SEQ ID NO:2890:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 762 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2890:
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(2) INFORMATION FOR SEQ ID NO:2892:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1703 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
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(2) INFORMATION FOR SEQ ID NO:2893:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 4521 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2893:
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 823 tttttaaatt tcaaggtgct tttacgaaca catgaataaa atatttgtgt cattttgaac
 883 cttacttgtc ttattttatg catgtattta tttatggggg ggcacaagga ctcatctgtg
 943 gtggtgcagc cactgtaaat aaattagtga aactacttca cgtcaatttc tgttcagtac
1003 actttagtga tggatcggag gaaattaata catgtttaca aaaagcccct cccccagttg
1063 ttacatatgc ctcagagata ccagttgtga aaagtgcagg tgcacttaca cacatacgca
1123 cacacaccc acaaatggta tcatacgaaa aaacatacct gcaatctgat ttgtccactt
1183 aattgtatat cttggataca gaacttgttt cactggaagg ctaaaaggca aagtctgggg
1243 aggcctagag gacacagggg atgggaggag gcgctctgag ctggatgtaa ggtctccacc
1303 cacggccaga gcacaaggtc ggataaccag tgggcctgcc ggcttggctg cctgggccct
1363 cccctgccga gacaaacggc tggagggagg aagtgtgcgg ctgggaagct ccgctgctct
1423 ggcccgggtt tcccatttcc cccttcccgc gctgagacgg cgaggaaagt tagcccggaa
1483 atctgcgccc gcctaaaacc cggcctggtc ccagccaccg ccccaggaac ttcccccacc
1543 gcaggggcgg aggtcgagag cagggatgga gaagtggacc tgcgcgggtg gactccgggg
1603 cgcgggtgga ctccgggggg cggggggact ccgaggagcg ggtggactgt ggggcgcggg
1663 taccgtctcg cagcgacctc tgtcggcggc tctggggatg gcccgcatct gtctgcgtgt
1723 acctggtata cgtgcaggta catgttcctg ttcacgtgca gactgggcgg gggatggggg
1783 ggtccacacc ggtgtacacc tttgcatacc tcttagcaac ttgaaattcc accacgagag
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1903 tgcaaatgaa atgaggatgt agtctgggtg cccaaggggg ggtgccttga gtgtggttgt
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2023 ctatgagcac aggatgtgca catatttgag tcttattagt ggtacacgca gttttatcat
2083 etceccaggt etgtgtetgt atgaaatgtg catgggtgtg tgtgtgcacg egtgtgttee
2143 cactcgggga atgtggggag aggtgcatgg agccaagatg ggtggtaaat agtatgttc
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2263 tctcatcctc tctgacttgg gaagaaccag gattttgttt ttaagccctt gggcatacag
2323 ttgttccatc ccgacatgaa ctcagcctcc cgtctgaccg ccccttggcc ttccttcttc
2383 ctcgatctgt ggaacccagg gaatctgcct agtgctgtct ccaagcacct tggccatgat
2443 gtaaacccag agaaattagc atctccatct ccttccttat tccccaccca aaagtcattt
2503 cctcttagtt cattacctgg gattttgatg tctatgttcc ctcctcgtta ttgatacaca
2563 cacagagaga gacaaacaaa aaaggaactt cttgaaattc ccccagaagg ttttgagagt
2623 tgttttcaat gttgcaacaa gtcagtttct agtttaagtt tccatcagaa aggagtagag
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2683 tatataagtt ccagtaccag caacagcagc agaagaaaca acatctgttt cagggccatt
2743 ggacteteeg teetgeecag ageaaggtaa geaetteeca ageeectaee teeeteeeet
2803 ccctgtgggc ctgcag
2819 gaattotoag acagoagoat tagaaggggo ottagagato aaccatttot ottattttac
2879 acacacctaa aactccctac agccgtgctt catcagcttc gagcagatga gccacccaga
2939 aggcagetee agttattagg tectagggee tgggtgtagt caggeeettt ggaageteea
2999 agtcagagat caaacacatc ctccccacta cccacgccta gggtgactaa tgcctgtggg
3059 aaaaacaact gaactaaaaa gtcccacagg aacctcaaac ccagcacatc caaaatggaa
3119 cttctcacca tctcctccaa actcagtcct cttatacagt aatccctgta aagctagaac
3179 aatctccatt ccccattctc agggccttcc tctcccgctc acctgaggag ctaccaagcc
3239 ttggcccaca agccctctga gagtccctcc tgcccaccct gtgttctcca tactgaataa
3299 ggacttggcc acacettgte aactetteee tetgetetae teetgaceee tggateeece
3359 catcatgcaa attetgccac atetecegee taaaacccag gaagacteee cactactete
3419 agcacagaaa gtacactcct tagtatggca tcccctgccc tcatggcatg gcccatccag
3479 ccctccagcc tcacaccctg caaggacacc tagaccccca cctccctcaa cccttcatga
3539 etgegettet gatecetgtt teccetgget agaecetgeg tgeeeteeg etggaagegg
3599 totaatgoot gottgttttt aacactcagg ttggggcccc tgcctgctcc cgggagcctt
3659 tgctgactcc tggaccccgt tgctccggct gagcgtgggc tctttctcta ggtctttcct
3719 cccaggactc tgtgtattca tcctatcgtt aaactggatt ctctacaaga gtaataattg
3779 cagagtcagc cageteteat ecetttteag gttteagaaa agaeetgtga acaaaaegee
3839 ttgagtctga tttagtgtgg caatgcccca agggtcctgt tctccctggg tgtcctgcac
3899 ctggtgcaac gtcggcctgg catctagtga gccatctaaa ggaacgatga tgagtgaatg
3959 atttgcctac cccttccagt actaggctgg aggtcgtggt tagggcccat ccctacgcag
4019 gacatgcaaa gtgggaggca ctcctctctc tacgtcggca gggggcgctg cacagctgcg
4079 gggcggggta gcttagacac ggggcgtccg gctaaggccg gggacccagg gtggtgggcg
4139 gggtgtcccg cccgcctgtg gaccccgcgc agtaactgcg aacatttcgc tttcattttg
4199 ggccgagctg gaggcggcgg ggccgtcccg gaacggctgc ggccgggcac cccgggagtt
4259 aatccgaaag cgccgcaagc ccccggggcc ggccgcaccg cacgtgtcac cgagaagctg
4319 atgtagagag agacacagaa ggagacagaa agcaagagac cagagtcccg ggaaagtcct
4379 gccgcgcctc gggacaatta taaaaatgtg gcccctggg tcagcctccc agccaccgcc
4439 ctcacctgcc gcggccacag gtctgcatcc agcggctcgc cctgtgtccc tgcagtgccg
4499 gctcagcatg tgtccagcgc gca
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(2) INFORMATION FOR SEQ ID NO:2894:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1742 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2894:
- 1 caageccaga geeetgeeat ttetgtggge teaggteet aetgeteage eeetteetee 61 ctcggcaagg ccacaatgaa ccggggagtc ccttttaggc acttgcttct ggtgctgcaa 121 ctggcgctcc tcccagcagc cactcaggga aagaaagtgg tgctgggcaa aaaaggggat 181 acagtggaac tgacctgtac agcttcccag aagaagagca tacaattcca ctggaaaaac 241 tccaaccaga taaagattot gggaaatcag ggctccttct taactaaagg tccatccaag 301 ctgaatgate gegetgacte aagaagaage etttgggace aaggaaactt eeeetgate 361 atcaagaatc ttaagataga agactcagat acttacatct gtgaagtgga ggaccagaag 421 gaggaggtgc aattgctagt gttcggattg actgccaact ctgacaccca cctgcttcag 481 gggcagagcc tgaccctgac cttggagagc cccctggta gtagcccctc agtgcaatgt 541 aggagtccaa ggggtaaaaa catacagggg gggaagaccc tctccgtgtc tcagctggag 601 ctccaggata gtggcacctg gacatgcact gtcttgcaga accagaagaa ggtggagttc 661 aaaatagaca tegtggtget agettteeag aaggeeteea geatagteta taagaaagag 721 ggggaacagg tggagttctc cttcccactc gcctttacag ttgaaaagct gacgggcagt 781 ggcgagctgt ggtggcaggc ggagagggct tcctcctcca agtcttggat cacctttgac 841 ctgaagaaca aggaagtgtc tgtaaaacgg gttacccagg accctaagct ccagatgggc 901 aagaagetee egeteeacet eaccetgeee eaggeettge eteagtatge tggetetgga 961 aacctcaccc tggcccttga agcgaaaaca ggaaagttgc atcaggaagt gaacctggtg 1021 gtgatgagag ccactcagct ccagaaaaat ttgacctgtg aggtgtgggg acccacctcc 1081 cctaagctga tgctgagctt gaaactggag aacaaggagg caaaggtctc gaagcgggag 1141 aaggcggtgt gggtgctgaa ccctgaggcg gggatgtggc agtgtctgct gagtgactcg 1201 ggacaggtcc tgctggaatc caacatcaag gttctgccca catggtccac cccggtgcag 1261 ccaatggccc tgattgtgct ggggggcgtc gccggcctcc tgcttttcat tgggctaggc 1321 atcttcttct gtgtcaggtg ccggcaccga aggcgccaag cagagcggat gtctcagatc 1381 aagagactcc tcagtgagaa gaagacctgc cagtgccctc accggtttca gaagacatgt 1441 agccccattt gaggcacgag gccaggcaga tcccacttgc agcctcccca ggtgtctgcc

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1501 ccgcgtttcc tgcctgcgga ccagatgaat gtagcagatc ccacgctctg gcctcctgtt
 1561 cgtcctccct acaatttgcc attgtttctc ctgggttagg ccccggcttc actggttgag
 1621 tgttgctctc tagtttccag aggcttaatc acaccgtcct ccacgccatt tccttttcct
 1681 tcaagcctag ccettetete attattete tetgaccete teeceaetge teatttggat
 1741 cc
(2) INFORMATION FOR SEQ ID NO:2895:
   (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 237 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2895:
    1 ctgccaactc tgacacccac ctgcttcagg ggcagagcct gaccctgacc ttggagagcc
   61 cccctggtag tagcccctca gtgcaatgta ggagtccaag gggtaaaaac atacaggggg
  121 ggaagaccct ctccgtgtct cagctggagc tccaggatag tggcacctgg acatgcactg
  181 ttttgcagaa ccagaagaag gtggagttca aaatagacat cgtggtgcta gctttcc
(2) INFORMATION FOR SEQ ID NO:2896:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 4040 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2896:
    1 tgcagagaac agagaaagga catctgcgag gaaagttccc tgatggctgt caacaaagtg
   61 ccacgtctct atggctgtgt acgctgagca cacgatttta tcgcgcctat catatcttgg
  121 tgcataaacg cacctcacct cggtcaaccc ttgctccgtc ttatgagaca ggctttatta
  181 tccgcatttt atatgagggg aatctgacgg tggagagaga attatcttgc tcaaggcgac
  241 acagcagage ccacaggtgg cagaatecca ecegageeeg ettegaeeeg eggggtggaa
  301 accaegggeg eccgeeegge tgegetteca gagetgaact gagaagegag teeteteege
  361 cetgeggeea ecgeceagee ecgaceceeg ecceggeeeg atecteacte geegeeaget
 421 ccccgcgccc accccggagt tggtggcgca gaggcgggag gcggaggcgg gagggcgggc
 481 gctggcaccg ggaacgcccg agcgccggca gagagcgcgg agagcgcgac acgtgcggcc
 541 cagageaceg gggccaeceg gteceegeag gcccgggace gegeeegetg gcaggegaca
 601 cgtggaagaa tacggagttc tataccagag ttgattgttg atggcacata cttttagagg
 661 atgeteattg geatttatgt ttataateae gtggetgttg attaaageaa aaatagatge
 721 gtgcaagaga ggcgatgtga ctgtgaagcc ttcccatgta attttacttg gatccactgt
 781 caatattaca tgctctttga agcccagaca aggctgcttt cactattcca gacgtaacaa
 841 gttaatcctg tacaagttig acagaagaat caattitcac catggccact ccctcaatte
 901 tcaagtcaca ggtcttcccc ttggtacaac cttgtttgtc tgcaaactgg cctgtatcaa
 961 tagtgatgaa attcaaatat gtggagcaga gatcttcgtt ggtgttgctc cagaacagcc
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1081 aggacgagac acccacttat acactgagta tactctacag ctaagtggac caaaaaattt
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1201 cacccctgaa tcacctgaat ccaatttcac agccaaggtt actgctgtca atagtcttgg
1261 aageteetet teaetteeat ceacatteae attettggae atagtgagge etetteetee
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1501 tacagaatat gaatttcaga tttcctctaa gctacatctt tataagggaa gttggagtga
1561 ttggagtgaa tcattgagag cacaaacacc agaagaagag cctactggga tgttagatgt
1621 ctggtacatg aaacggcaca ttgactacag tagacaacag atttctcttt tctggaagaa
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1801 tectagaace ggaaattggg etgtggetgt gtetgeagea aatteaaaag geagttetet
1861 gcccactcgt attaacataa tgaacctgtg tgaggcaggg ttgctggctc ctcgccaggt
1921 ctctgcaaac tcagagggca tggacaacat tctggtgact tggcagcctc ccaggaaaga
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2161 aggatgcage tecateetgg gtaactetaa geacaaagea ceaetgagtg geececacat
2221 taatgccatc acagaggaaa aggggagcat tttaatttca tggaacagca ttccagtcca
2281 ggagcaaatg ggctgcctcc tccattatag gatatactgg aaggaacggg actccaactc
2341 ccagcctcag ctctgtgaaa ttccctacag agtctcccaa aattcacatc caataaacag
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2401 cctgcagccc cgagtgacat atgtcctgtg gatgacagct ctgacagctg ctggtgaaag 2461 ttcccacgga aatgagaggg aattttgtct gcaaggtaaa gccaattgga tggcgtttgt

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2521 ggcaccaagc atttgcattg ctatcatcat ggtgggcatt ttctcaacgc attacttcca
2581 gcaaaaggtg tttgttctcc tagcagccct cagacctcag tggtgtagca gagaaattcc
2641 agatccagca aatagcactt gcgctaagaa atatcccatt gcagaggaga agacacagct
2701 gcccttggac aggctcctga tagactggcc cacgcctgaa gatcctgaac cgctggtcat
2761 cagtgaagtc cttcatcaag tgaccccagt tttcagacat ccccctgct ccaactggcc
2821 acaaagggaa aaaggaatcc aaggtcatca ggcctctgag aaagacatga tgcacagtgc
2881 ctcaagccca ccacctccaa gagctctcca agctgagagc agacaactgg tggatctgta
2941 caaggtgctg gagagcaggg gctccgaccc aaagccagaa aacccagcct gtccctggac
3001 ggtgctccca gcaggtgacc ttcccaccca tgatggctac ttaccctcca acatagatga
3061 cctcccctca catgaggcac ctctcgctga ctctctggaa gaactggagc ctcagcacat
3121 ctccctttct gttttcccct caagttctct tcacccactc accttctcct gtggtgataa
3181 gctgactctg gatcagttaa agatgaggtg tgactccctc atgctctgag tggtgaggct
3241 tcaagcetta aagtcagtgt geeetcaace ageacageet geeccaatte eeccageeee
3301 tgctccagca gctgtcatct ctgggtgcca ccatcggtct ggctgcagct agaggacagg
3361 caagccagct ctgggggagt cttaggaact gggagttggt cttcactcag atgcctcatc
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3481 tgaattocta gtaactttot tggtatgotg gocagaaagg gaaatgagga ggagagtaga
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3661 teetgagatg atggaaatgt tetacetetg cacteaetgt ceagtacatt agacactagg
3721 cacattggct gttaatcact tggaatgtgt ttagcttgac tgaggaatta aattttgatt
3781 gtaaatttaa atcgccacac atggctagtg gctactgtat tggagtgcac agctctagat
3841 ggctcctaga ttattgagag cctccaaaac aaatcaacct agttctatag atgaagacat
3901 aaaagacact ggtaaacacc aatgtaaaag ggcccccaag gtggtcatga ctggtctcat
3961 ttgcagaagt ctaagaatgt accitttict ggccgggcgt ggtagctcat gcctgtaatc
4021 ccagcacttt gggaggctga
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- (2) INFORMATION FOR SEQ ID NO:2897:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6019 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2897:

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1 caageecaga geeetgeeat ttetgtggge teaggteett actgeteage eeetteetee
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 121 ctggcgctcc tcccagcagc cactcaggga aagaaagtgg tgctgggcaa aaaaggggat
 181 acagtggaac tgacctgtac agetteccag aagaagagca tacaatteca etggaaaaac
 241 tccaaccaga taaagattct gggaaatcag ggctccttct taactaaagg tccatccaag
 301 ctgaatgatc gcgctgactc aagaagaagc ctttgggacc aaggaaactt ccccctgatc
 361 atcaagaatc ttaagataga agactcagat acttacatct gtgaagtgga ggaccagaag
 421 gaggaggtgc aattgctagt gttcggattg actgccaact ctgacaccca cctgcttcag
 481 gggcagagcc tgaccctgac cttggagagc ccccctggta gtagcccctc agtgcaatgt
 541 aggagtccaa ggggtaaaaa catacagggg gggaagaccc tctccgtgtc tcagctggag
 601 ctccaggata gtggcacctg gacatgcact gtcttgcaga accagaagaa ggtggagttc
 661 aaaatagaca tcgtggtgct agctttccag aaggcctcca gcatagtcta taagaaagag
 721 ggggaacagg tggagttctc cttcccactc gcctttacag ttgaaaagct gacgggcagt
 781 ggcgagctgt ggtggcaggc ggagagggct tcctcctcca agtcttggat cacctttgac
 841 ctgaagaaca aggaagtgtc tgtaaaacgg gttacccagg accctaagct ccagatgggc
 901 aagaagetee egeteeacet eaccetgeee eaggeettge eteagtatge tggetetgga
 961 aacctcaccc tggcccttga agcgaaaaca ggaaagttgc atcaggaagt gaacctggtg
1021 gtgatgagag ccactcagct ccagaaaaat ttgacctgtg aggtgtgggg acccacctcc
1081 cctaagctga tgctgagctt gaaactggag aacaaggagg caaaggtctc gaagcgggag
1141 aaggeggtgt gggtgetgaa eeetgaggeg gggatgtgge agtgtetget gagtgaeteg
1201 ggacaggtcc tgctggaatc caacatcaag gttctgccca catggtccac cccggtgcag
1261 ccaatggccc tgattgtgct ggggggcgtc gccggcctcc tgcttttcat tgggctaggc
1321 atcttcttct gtgtcaggtg ccggcaccga aggcgccaag cagagcggat gtctcagatc
1381 aagagactcc tcagtgagaa gaagacctgc cagtgccctc accggtttca gaagacatgt
1441 agccccattt gaggcacgag gccaggcaga tcccacttgc agcctcccca ggtgtctgcc
1501 ccgcgtttcc tgcctgcgga ccagatgaat gtagcagatc ccacgctctg gcctcctgtt
1561 cgtcctccct acaatttgcc attgtttctc ctgggttagg ccccggcttc actggttgag
1621 tgttgctctc tagtttccag aggcttaatc acaccgtcct ccacgccatt tcctttcct
1681 tcaagcctag cccttctctc attatttctc tctgaccctc tccccactgc tcatttggat
1741 cc
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- 1 ctgccaactc tgacacccac ctgcttcagg ggcagagcct gaccctgacc ttggagagcc
 - 61 cccctggtag tagcccctca gtgcaatgta ggagtccaag gggtaaaaac atacaggggg
 - 121 ggaagaccet eteegtgtet eagetggage teeaggatag tggeacetgg acatgeactg
 - 181 tittgcagaa ccagaagaag gtggagttca aaatagacat cgtggtgcta gctttcc

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1 tgcagagaac agagaaagga catctgcgag gaaagttccc tgatggctgt caacaaagtg
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     181 tccgcatttt atatgagggg aatctgacgg tggagagaga attatcttgc tcaaggcgac
     241 acagcagage ccacaggigg cagaatecca ecegageceg ettegaceeg eggggtggaa
     301 accaegggeg eccgeeegge tgegetteca gagetgaact gagaagegag teeteteege
     361 cetgeggeca cegeceagee cegaceceeg ceceggeceg atecteacte geogecaget
     421 ccccgcgccc accccggagt tggtggcgca gaggcgggag gcggaggcgg gagggcgggc
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     541 cagagcaccg gggccacccg gtccccgcag gcccgggacc gcgcccgctg gcaggcgaca
     601 cgtggaagaa tacggagtte tataccagag ttgattgttg atggcacata cttttagagg
     661 atgctcattg gcatttatgt ttataatcac gtggctgttg attaaagcaa aaatagatgc
     721 gtgcaagaga ggcgatgtga ctgtgaagcc ttcccatgta attttacttg gatccactgt
     781 caatattaca tgctctttga agcccagaca aggctgcttt cactattcca gacgtaacaa
     841 gttaatcctg tacaagtttg acagaagaat caattitcac catggccact ccctcaattc
     901 tcaagtcaca ggtcttcccc ttggtacaac cttgtttgtc tgcaaactgg cctgtatcaa
     961 tagtgatgaa attcaaatat gtggagcaga gatcttcgtt ggtgttgctc cagaacagcc
    1021 tcaaaattta tcctgcatac agaagggaga acaggggact gtggcctgca cctgggaaag
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    1261 aageteetet teaetteeat ceacatteae attettggae atagtgagge etetteetee
    1321 gtgggacatt agaatcaaat ttcaaaaggc ttccgtgagc agatgtaccc tttattggag
    1381 agatgaggga ctggtactgc ttaatcgact cagatatcgg cccagtaaca gcaggctctg
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    1561 ttggagtgaa tcattgagag cacaaacacc agaagaagag cctactggga tgttagatgt
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   5700 cacattggct gttaatcact tggaatgtgt ttagcttgac tgaggaatta aattttgatt
   5760 gtaaatttaa atcgccacac atggctagtg gctactgtat tggagtgcac agctctagat
   5820 ggctcctaga ttattgagag cctccaaaac aaatcaacct agttctatag atgaagacat
   5880 aaaagacact ggtaaacacc aatgtaaaag ggcccccaag gtggtcatga ctggtctcat
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- (2) INFORMATION FOR SEQ ID NO:2898:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5670 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2898:

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1861	gtcacaggca	aaactgctgg	aactcagggc	agcattgcaa	atgccacgcc	gctctcaggg
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2281	tgcctccctc	tacagecete	adddadctca	ttgaggagg	aatcaacatc	acceange
2341	agaaggtgag	tatcaactea	ccaggageeea	aggtatage	ggtcaacatt	acctagaacc
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3361	acccctgcca	gcactctgct	cactgtcact	ttgctcccac	aggctccgct	ctgcaatggc
3421	agcatggtat	ggagcatcaa	cctgacagct	ggcatggtaa	ggacctttgg	gtgcagggag
3481	gatggggcag	aggctccagg	ccttgggctt	atcttctctg	agcctccctt	ccatggctgg
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(2) INFORMATION FOR SEQ ID NO:2899:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1282 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2899:
- 1 aagccaccca gcctatgcat ccgctcctca atcctctcct gttggcactg ggcctcatgg 61 cgcttttgtt gaccacggtc attgctctca cttgccttgg cggctttgcc tccccaggcc 121 ctgtgcctcc ctctacagcc ctcagggagc tcattgagga gctggtcaac atcacccaga 181 accagaagge teegetetge aatggeagea tggtatggag cateaacetg acagetggea 241 tgtactgtgc agccctggaa tccctgatca acgtgtcagg ctgcagtgcc atcgagaaga 301 cccagaggat gctgagcgga ttctgcccgc acaaggtctc agctgggcag ttttccagct 361 tgcatgtccg agacaccaaa atcgaggtgg cccagtttgt aaaggacctg ctcttacatt 421 taaagaaact ttttcgcgag ggacggttca actgaaactt cgaaagcatc attatttgca 481 gagacaggac ctgactattg aagttgcaga ttcatttttc tttctgatgt caaaaatgtc 601 gtgctgcccg tcttcagcct agccgacctc agccttcccc ttgcccaggg ctcagcctgg 661 tgggcctcct ctgtccaggg ccctgagctc ggtggaccca gggatgacat gtccctacac 721 ccctccctg ccctagagca cactgtagca ttacagtggg tgccccctt gccagacatg 781 tggtgggaca gggacccact tcacacacag gcaactgagg cagacagcag ctcaggcaca 841 cttcttcttg gtcttattta ttattgtgtg ttatttaaat gagtgtgttt gtcaccgttg 901 gggattgggg aagactgtgg ctgctggcac ttggagccaa gggttcagag actcagggcc 961 ccagcactaa agcagtggac cccaggagtc cctggtaata agtactgtgt acagaattct 1021 gctacctcac tggggtcctg gggcctcgga gcctcatccg aggcagggtc aggagagggg 1081 cagaacagcc gctcctgtct gccagccagc agccagctct cagccaacga gtaatttatt 1141 gtttttcctc gtatttaaat attaaatatg ttagcaaaga gttaatatat agaagggtac 1201 cttgaacact gggggagggg acattgaaca agttgtttca ttgactatca aactgaagcc 1261 agaaataaag ttggtgacag at
- (2) INFORMATION FOR SEQ ID NO:2900:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 6952 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2900: 1 ggatccccgc tgacaatcta gaaacaagca acagaccctc tgatgtagcc atctgtgccg 61 cgcctctccg caccgcccgc cacgccttgg tccctggaga ccaccctcca gggcaggggc 121 tgccgctcgg ccgggcccgc ggggtccctc ggcctgacat ggccggtgct ggagcggcac 181 gtgcgcgcct cggcccctcg gccgctcccg ccctcgccg gtgcgcaccg gcgctcgggg 241 agccgctggc ccgggtgtcc agccggccct tgccctgcct ggcgctcgga ccgccacctt 301 tgccgccccc tcgccagcct ccgcagcttc cagactggcc ggtctgcgcg cccacccctg 361 cctcccggac cggccaccgc cggaggccgc ggaggagggc ccggccgcgc agatcccgct 421 tatcgggccc catctcccgt tacataaggc cacccccta tetccgcggg ccatcgccgc 481 cgcaaccgcc gcgccagcgc cttctcccac gcgcgggggc gcccctgccc accgctcccg 541 gcagggcttt tggtggccat gggggataag gggcgttgac tcacccgggc ggggctccgg 601 gagttgcaca gaccaaggta gttccccgct ccttccccca tcacggagac cctgtgggag 661 atgccgtggg ccctctacta cagattagga aacaggcccg tagaggggtc gcgcggccaa 721 gtagcggcac tccaggcact gggggccctc gagggaaggg gcagacttct gggagtcaga 781 gccagcagct gggctgggaa gcttcgagtg tggacagaga gggtgggaat gacgttccct 841 gtgggaagag agggtgggca agcctgggat gcctctgagc gggaatccag catgccttgt 901 gaggagggtc acaagcacac ccttgtgagg aggttgagcc ccatcgagga caggacggag 961 ggagcctgag caggcagaga gggggcctgg ggaggcgctg gttcggggag gaagtgggta 1021 ggggagaaat cttgacatca acacccaaca ggcaaatgcc gtggcctctg ctgtgggggt 1081 ttctggagga cttctaggaa aacgagggaa gagcaggaaa aggcgacatg gctgtagggc 1141 caageccagg agecgeecte cacageacte attetgeaga agggaaattt gaggeeccea 1201 gacggcaggg gttgatcctg cagagactgg tgagcaaagg ggatcacccc aagccccagt 1261 ggcactagga acacttacaa tctctgacct ggactaaggc tgccagcctg gcccagttaa 1321 gagtttccca gaaggatggc ccatacactt taaattaaag gggccagaca cgtgcacact 1381 acttccagcc actctggaag ctgaggtggg gggatcgctt gagtctggga gttggaggcc 1501 aaaaaacacca aaaaagctcc cagaaagacc tctgaatctt tctggatctc tcagtggaga 1561 cctggaaatc tgaactttga caatccctct cacagtgggg ccaaggagga attaggcaag 1621 ccaaaagaag tgaactttac tcttctattg cctgtttgaa ttttgtatcc aagcaagtgt 1681 tacttaagta atttaagaga ctggttcatc gaaaaaataa aactccccaa attcccatag 1741 ctggtagact gtggtcacag ccacagtgca ctaagactat ctgctcagca cttctggtga 1801 cccaaaaggg tctgaggaca ggagctcaga gttgggtcag ctgtccaggt actcagggtt 1861 gtcacaggca aaactgctgg aactcagggc agcattgcaa atgccacgcc gctctcaggg 1921 ccccttgcct gccgctggaa ttaaacccac ccagatcttg gaaactctgc cctggaccct 1981 totcaataag tocatgagaa atcaaactot ttootttatg cgacactgga ttttccacaa 2041 agtaaaatca agatgagtaa agatgtggtt tctagatagt gcctgaaaaa gcagagacca 2101 tggtgtcagg cgtcaccact tgggcctata aaagctgcca caagacgcca aggccacaag 2161 ccacccagcc tatgcatccg ctcctcaatc ctctcctgtt ggcactgggc ctcatggcgc 2221 ttttgttgac cacggtcatt gctctcactt gccttggcgg ctttgcctcc ccaggccctg 2281 tgcctccctc tacagccctc agggagctca ttgaggagct ggtcaacatc acccagaacc 2341 agaaggtgag tgtcggctag ccagggtcct agctatgagg gctccagggt gggtgattcc 2401 caagatgagg tcatgagcag gctgggcctg gtcctaagat gcctgtaggt caggaaaaat 2461 ctccatggac caaggcccgg cccagccatg agggagagag gagctgggct ggggggctca 2521 gcactgtgga tggacctatg gaggtgtctg gcagactccc cagggactac ctgctctcct 2581 ggcctggcct tgtctgccac tgccagctcc tactcagcca ttcctgaaca gaggacagca 2641 gagaagggcc agcaccctcc cagaaccatg tggcatttgc caactggatt ttgaccataa 2701 caatgcagcc attctcccca gcaccatcat aggcccgccc ttacaggagg attcgttagt 2761 agagtccgct ccttgcccca ctagtaacag ctcacatgtc tgagcactgc ttacaccagg 2821 cctggtgcac gtgctttatg tgtcatttca tcactgccag ccacctcaag aggcaggtac 2881 gatgaaccca ttctgctaag gttcagtgag gttaagtgac agaggctgga ttcaagccag 2941 gcctggccaa caccagagtg tccatgctcc taactgcagt gttccctcac catcagaagg

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3781 agcggattet gecegeacaa ggteteaget ggggtaagge atececeace eteteacace
 3841 caccetgeae eccetectge caaccetggg etegetgaag ggaagetgge tgaatateca
 3901 tggtgtgtgt ccacccaggg gtggggccat tgtggcagca gggacgtggc cttcgggatt
 3961 tacaggatet gggeteaagg geteetaaet eetaeetggg eeteaattte eacatetgta
 4021 cagtagaggt actaacagta cccacctcat ggggacttcc gtgaggactg aatgagacag
 4081 tecetggaaa geeestggtt tgtgegagte gteeeggeet etggegttet aeteaegtge
 4141 tgacctcttt gtcctgcagc agttttccag cttgcatgtc cgagacacca aaatcgaggt
 4201 ggcccagttt gtaaaggacc tgctcttaca tttaaagaaa cttttcgcg agggacggtt
 4261 caactgaaac ttcgaaagca tcattatttg cagagacagg acctgactat tgaagttgca
 4321 gattcatttt tctttctgat gtcaaaaatg tcttgggtag gcgggaagga gggttaggga
 4381 ggggtaaaat tccttagctt agacctcagc ctgtgctgcc cgtcttcagc ctagccgacc
 4441 tcagccttcc ccttgcccag ggctcagcct ggtgggcctc ctctgtccag ggccctgagc
 4501 teggtggace cagggatgac atgteectae acceetece tgeectagag cacaetgtag
 4561 cattacagtg ggtgccccc ttgccagaca tgtggtggga cagggaccca cttcacacac
 4621 aggcaactga ggcagacagc agctcaggca cacttettet tggtettatt tattattgtg
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 4741 acttggagcc aagggttcag agactcaggg ccccagcact aaagcagtgg accccaggag
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 4981 tgttagcaaa gagttaatat atagaagggt accttgaaca ctgggggagg ggacattgaa
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 5101 gattgtattt gtettteatt ttggeetttg gggaeaetgg tetgtggtet gaagaetetg
 5161 aggagetett egggaggetg gtgggttgga ggaggggaet gggatggatt acagegaggg
 5221 tagggtgcag tgacctgggc tgaatgcaag ctagctcccg agggtgggga catggcctga
 5281 aggaageeee acettetgte tgetgeacea geaaggaegg agaggettgg geeagaetgt
 5341 cagggttcaa ggagggcatc aggagcagac ggagacccag gaagtctcac aatcacatct
 5401 cctgaggact ggccagctgt gtctggcacc acccacacat ccatgtctcc ctcacaaccc
 5461 aggaggccga tgagaactgt gaggctcaga aagcgtgggc ggtttgccta aggtcacgta
 5521 gctacttcct cactggggtc ctggggcctc agagcctcat ctgaggtaaa ggagcaaagt
 5581 tgggattggg gtccaaaatt cactttaact ccaaagccca cacacttaac cacctgcct
 5641 atttctgtcc aaatgtcacc tgtcctgaat
 5671 aagccaccca gcctatgcat ccgctcctca atcctctct gttggcactg ggcctcatgg
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 5851 accagaagge teegetetge aatggeagea tggtatggag cateaacetg acagetggea
 5911 tgtactgtgc agccctggaa tccctgatca acgtgtcagg ctgcagtgcc atcgagaaga
 5971 cccagaggat gctgagcgga ttctgcccgc acaaggtctc agctgggcag ttttccagct
 6031 tgcatgtccg agacaccaaa atcgaggtgg cccagtttgt aaaggacctg ctcttacatt
 6091 taaagaaact ttttcgcgag ggacggttca actgaaactt cgaaagcatc attatttgca
 6151 gagacaggac ctgactattg aagttgcaga ttcatttttc tttctgatgt caaaaatgtc
 6271 gtgctgcccg tcttcagcct agccgacctc agccttcccc ttgcccaggg ctcagcctgg
6331 tgggcctcct ctgtccaggg ccctgagctc ggtggaccca gggatgacat gtccctacac
6391 ccctcccctg ccctagagca cactgtagca ttacagtggg tgcccccctt gccagacatg
 6451 tggtgggaca gggacccact tcacacacag gcaactgagg cagacagcag ctcaggcaca
 6511 cttcttcttg gtcttattta ttattgtgtg ttatttaaat gagtgtgttt gtcaccgttg
6571 gggattgggg aagactgtgg ctgctggcac ttggagccaa gggttcagag actcagggcc
6631 ccagcactaa agcagtggac cccaggagtc cctggtaata agtactgtgt acagaattct
6691 gctacctcac tggggtcctg gggcctcgga gcctcatccg aggcagggtc aggagagggg
6751 cagaacagcc gctcctgtct gccagccagc agccagctct cagccaacga gtaatttatt
6811 gtttttcctc gtatttaaat attaaatatg ttagcaaaga gttaatatat agaagggtac
6871 cttgaacact gggggagggg acattgaaca agttgtttca ttgactatca aactgaagcc
6931 agaaataaag ttggtgacag at
(2) INFORMATION FOR SEQ ID NO:2901:
   (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1270 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2901:
   1 ttcggcatcc gctcctcaat cctctcctgt tggcactggg cctcatggcg cttttgttga
  61 ccacggtcat tgctctcact tgccttggcg gctttgcctc cccaggccct gtgcctccct
 121 ctacagecet cagggagete attgaggage tggtcaacat cacceagaac cagaaggete
 181 cgctctgcaa tggcagcatg gtatggagca tcaacctgac agctggcatg tactgtgcag
 241 ccctggaatc cctgatcaac gtgtcaggct gcagtgccat cgagaagacc cagaggatgc
 301 tgagcggatt ctgcccgcac aaggtctcag ctgggcagtt ttccagcttg catgtccgag
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361 acaccaaaat cgaggtggcc cagtttgtaa aggacctgct cttacattta aagaaacttt
 421 ttcgcgaggg acggttcaac tgaaacttcg aaagcatcat tatttgcaga gacaggacct
 481 gactattgaa gttgcagatt catttttctt tctgatgtca aaaatgtctt gggtaggcgg
 541 gaaggagggt tagggagggg taaaattcct tagcttagac ctcagcctgt gctgcccgtc
 601 ttcagcctag ccgacctcag ccttccctt gcccagggct cagcctggtg ggcctcctct
 661 gtccagggcc ctgagctcgg tggacccagg gatgacatgt ccctacaccc ctcccctgcc
 721 ctagagcaca ctgtagcatt acagtgggtg cccccttgc cagacatgtg gtgggacagg
 781 gacccacttc acacaggc aactgaggca gacagcagct caggcacact tcttcttggt
 841 cttatttatt attgtgtgtt atttaaatga gtgtgtttgt caccgttggg gattggggaa
 901 gactgtggct gctggcactt ggagccaagg gttcagagac tcagggcccc agcactaaag
 961 cagtggaccc caggagtccc tggtaataag tactgtgtac agaattctgc tacctcactg
1021 gggtcctggg gcctcggagc ctcatccgag gcagggtcag gagaggggca gaacagccgc
1081 teetgtetge cagecageag ceagetetea gecaaegagt aatttattgt tttteetegt
1141 atttaaatat taaatatgtt agcaaagagt taatatatag aagggtacct tgaacactgg
1201 gggaggggac attgaacaag ttgtttcatt gactatcaaa ctgaagccag aaataaagtt
1261 ggtgacagat
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(2) INFORMATION FOR SEQ ID NO:2902:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3999 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2902:

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1 tcagcccggc cgggctccga ggcgagaggc tgcatggagt ggccggcgcg gctctgcggg
   61 ctgtgggcgc tgctgctctg cgccggcggc gggggcgggg gcggggggcgc cgcgcctacg
  121 gaaactcagc cacctgtgac aaatttgagt gtctctgttg aaaacctctg cacagtaata
  181 tggacatgga atccacccga gggagccagc tcaaattgta gtctatggta ttttagtcat
  241 tttggcgaca aacaagataa gaaaatagct ccggaaactc gtcgttcaat agaagtaccc
  301 ctgaatgaga ggatttgtct gcaagtgggg tcccagtgta gcaccaatga gagtgagaag
 361 cctagcattt tggttgaaaa atgcatctca cccccagaag gtgatcctga gtctgctgtg
  421 actgagette aatgeatttg geacaacetg agetacatga agtgttettg geteettgga
 481 aggaatacca gtcccgacac taactatact ctctactatt ggcacagaag cctggaaaaa
 541 attcatcaat gtgaaaacat ctttagagaa ggccaatact ttggttgttc ctttgatctg
 601 accaaagtga aggattccag ttttgaacaa cacagtgtcc aaataatggt caaggataat
 661 gcaggaaaaa ttaaaccatc cttcaatata gtgcctttaa cttcccgtgt gaaacctgat
 721 cctccacata ttaaaaacct ctccttccac aatgatgacc tatatgtgca atgggagaat
 781 ccacagaatt ttattagcag atgcctattt tatgaagtag aagtcaataa cagccaaact
 841 gagacacata atgttttcta cgtccaagag gctaaatgtg agaatccaga atttgagaga
 901 aatgtggaga atacatcttg titcatggtc cctggtgttc ttcctgatac tttgaacaca
 961 gtcagaataa gagtcaaaac aaataagtta tgctatgagg atgacaaact ctggagtaat
1021 tggagccaag aaatgagtat aggtaagaag cgcaattcca cactctacat aaccatgtta
1081 ctcattgttc cagtcatcgt cgcaggtgca atcatagtac tcctgcttta cctaaaaagg
1141 ctcaagatta ttatattccc tccaattcct gatcctggca agatttttaa agaaatgttt
1201 ggagaccaga atgatgatac tctgcactgg aagaagtacg acatctatga gaagcaaacc
1261 aaggaggaaa ccgactctgt agtgctgata gaaaacctga agaaagcctc tcagtgatgg
1321 agataattta tttttacctt cactgtgacc ttgagaagat tcttcccatt ctccatttgt
1381 tatctgggaa cttattaaat ggaaactgaa actactgcac catttaaaaa caggcagctc
1441 ataagagcca caggtettta tgttgagteg cgcaccgaaa aactaaaaat aatgggeget
1501 ttggagaaga gtgtggagtc attctcattg aattataaaa gccagcaggc ttcaaactag
1561 gggacaaagc aaaaagtgat gatagtggtg gagttaatct tatcaagagt tgtgacaact
1621 tcctgaggga tctatacttg ctttgtgttc tttgtgtcaa catgaacaaa ttttattgt
1681 aggggaactc atttggggtg caaatgctaa tgtcaaactt gagtcacaaa gaacatgtag
1741 aaaacaaaat ggataaaatc tgatatgtat tgtttgggat cctattgaac catgtttgtg
1801 gctattaaaa ctcttttaac agtctgggct gggtccggtg gctcacgcct gtaatcccag
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1921 caaaatggtg aaacctcctc tctactaaaa ctacaaaaat taactgggtg tggtggcgcg
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2101 totgtotaaa aaacaaaaca aaacaaaaca aaacaaaaaa acctottaat attotggagt
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2341 aagtetetaa caatgtattt tetteaeete tgetaeteaa gtageattta etgtgtettt
2401 ggtttgtgct aggcccccgg gtgtgaagca cagacccctt ccaggggttt acagtctatt
2461 tgagactect cagttettge caetttttt tttaatetee accagteatt ttteagacet
2521 tttaactcct caattccaac actgatttcc ccttttgcat tctccctcct tcccttcctt
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2641 cagaggataa ttagcatctc aggttaagtg tgagtaatct gagaaacaat gactaattct
2701 tgcatatttt gtaacttcca tgtgagggtt ttcagcattg atatttgtgc attttctaaa
2761 cagagatgag gtggtatett caegtagaae attggtatte gettgagaaa aaaagaatag
2821 ttgaacctat ttctctttct ttacaagatg ggtccaggat tcctcttttc tctgccataa
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3241 ggcaacctgc ttccatggcc gtgtagaagc atggtgccct ggcttctctg aggaagctgg
3301 ggttcatgac aatggcagat gtaaagttat tcttgaagtc agattgaggc tgggagacag
3361 ccgtagtaga tgttctactt tgttctgctg ttctctagaa agaatatttg gttttcctgt
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3481 ctccccctag ccatttttac tgttatccta tttagatggc catgaagagg atgctgtgaa
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3601 gttcccatcc tcttcttta gcagtaaaat agctgaggga aaagggaggg aaaaggaagt
3661 tatgggaata cctgtggtgg ttgtgatccc taggtcttgg gagctcttgg aggtgtctgt
3721 atcagtggat ttcccatccc ctgtgggaaa ttagtaggct catttactgt tttaggtcta
3781 gcctatgtgg attttttcct aacataccta agcaaaccca gtgtcaggat ggtaattctt
3841 attetttegt teagttaagt tttteeette atetgggeae tgaagggata tgtgaaacaa
3901 tgttaacatt tttggtagtc ttcaaccagg gattgtttct gtttaacttc ttataggaaa
3961 gcttgagtaa aataaatatt gtctttttgt atgtcaccc
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(2) INFORMATION FOR SEQ ID NO:2903:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4039 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2903:

1 tgccaaggct ccagcccggc cgggctccga ggcgagaggc tgcatggagt ggccggcgcg 61 gctctgcggg ctgtgggcgc tgctgctctg cgccggcggc gggggcggg gcggggggcgc 121 cgcgcctacg gaaactcagc cacctgtgac aaatttgagt gtctctgttg aaaacctctg 181 cacagtaata tggacatgga atccacccga gggagccagc tcaaattgta gtctatggta 241 ttttagtcat tttggcgaca aacaagataa gaaaatagct ccggaaactc gtcgttcaat 301 agaagtaccc ctgaatgaga ggatttgtct gcaagtgggg tcccagtgta gcaccaatga 361 gagtgagaag cctagcattt tggttgaaaa atgcatctca cccccagaag gtgatcctga 421 gtctgctgtg actgagcttc aatgcatttg gcacaacctg agctacatga agtgttcttg 481 gctccctgga aggaatacca gtcccgacac taactatact ctctactatt ggcacagaag 541 cctggaaaaa attcatcaat gtgaaaacat ctttagagaa ggccaatact ttggttgttc 601 ctttgatctg accaaagtga aggattccag ttttgaacaa cacagtgtcc aaataatggt 661 caaggataat gcaggaaaaa ttaaaccatc cttcaatata gtgcctttaa cttcccgtgt 721 gaaacctgat cctccacata ttaaaaacct ctccttccac aatgatgacc tatatgtgca 781 atgggagaat ccacagaatt ttattagcag atgcctattt tatgaagtag aagtcaataa 841 cagccaaact gagacacata atgttttcta cgtccaagag gctaaatgtg agaatccaga 901 atttgagaga aatgtggaga atacatcttg tttcatggtc cctggtgttc ttcctgatac 961 tttgaacaca gtcagaataa gagtcaaaac aaataagtta tgctatgagg atgacaaact 1021 ctggagtaat tggagccaag aaatgagtat aggtaagaag cgcaattcca cactctacat 1081 aaccatgtta ctcattgttc cagtcatcgt cgcaggtgca atcatagtac tcctgcttta 1141 cctaaaaagg ctcaagatta ttatattccc tccaattcct gatcctggca agattttaa 1201 agaaatgttt ggagaccaga atgatgatac tctgcactgg aagaagtacg acatctatga 1261 gaagcaaacc aaggaggaaa ccgactctgt agtgctgata gaaaacctga agaaagcctc 1321 tcagtgatgg agataattta tttttacctt cactgtgacc ttgagaagat tcttcccatt 1381 ctccatttgt tatctgggaa cttattaaat ggaaactgaa actactgcac catttaaaaa 1441 caggcagete ataagageea caggtettta tgttgagteg egeacegaaa aactaaaaat 1501 aatgggcgct ttggagaaga gtgtggagtc attctcattg aattataaaa gccagcaggc 1561 ttcaaactag gggacaaagc aaaaagtgat gatagtggtg gagttaatct tatcaagagt 1621 tgtgacaact tcctgaggga tctatacttg ctttgtgttc tttgtgtcaa catgaacaaa 1681 ttttatttgt aggggaactc atttggggtg caaatgctaa tgtcaaactt gagtcacaaa 1741 gaacatgtag aaaacaaaat ggataaaatc tgatatgtat tgtttgggat cctattgaac 1801 catgtttgtg gctattaaaa ctcttttaac agtctgggct gggtccggtg gctcacgcct 1861 gtaatcccag caatttggga gtccgaggcg ggcggatcac tcgaggtcag gagttccaga 1921 ccagcctgac caaaatggtg aaacctcctc tctactaaaa ctacaaaaat taactgggtg 1981 tggtggcgcg tgcctgtaat cccagctact cgggaagctg aggcaggtga attgtttgaa 2041 cctgggaggt ggaggttgca gtgagcagag atcacaccac tgcactctag cctgggtgac 2161 attetggagt cateatteec ttegacagea tttteetetg etttgaaage eccagaaate

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2221 agtgttggcc atgatgacaa ctacagaaaa accagaggca gcttctttgc caagaccttt
2281 caaagccatt ttaggctgtt aggggcagtg gaggtagaat gactccttgg gtattagagt
2341 ttcaaccatg aagtototaa caatgtattt tottcaccto tgotactcaa gtagcattta
2401 ctgtgtcttt ggtttgtgct aggccccgg gtgtgaagca cagacccctt ccaggggttt
2461 acagtctatt tgagactcct cagttcttgc cacttttttt tttaatctcc accagtcatt
2521 tttcagacct tttaactcct caattccaac actgatttcc ccttttgcat tctccctcct
2581 tecetteett gtageetttt gaettteatt ggaaattagg atgtaaatet geteaggaga
2641 cctggaggag cagaggataa ttagcatctc aggttaagtg tgagtaatct gagaaacaat
2701 gactaattct tgcatatttt gtaacttcca tgtgagggtt ttcagcattg atatttgtgc
2761 attttctaaa cagagatgag gtggtatctt cacgtagaac attggtattc gcttgagaaa
2821 aaaagaatag ttgaacctat ttctctttct ttacaagatg ggtccaggat tcctctttc
2881 tctgccataa atgattaatt aaatagcttt tgtgtcttac attggtagcc agccagccaa
2941 ggctctgttt atgcttttgg ggggcatata ttgggttcca ttctcaccta tccacacaac
3001 atatccgtat atatcccctc tactcttact tcccccaaat ttaaagaagt atgggaaatg
3061 agaggcattt cccccacccc atttctctcc tcacacacag actcatatta ctggtaggaa
3121 cttgagaact ttatttccaa gttgttcaaa catttaccaa tcatattaat acaatgatgc
3181 tatttgcaat teetgeteet aggggagggg agataagaaa eeeteactet etacaggttt
3241 gggtacaagt ggcaacctgc ttccatggcc gtgtagaagc atggtgccct ggcttctctg
3301 aggaagctgg ggttcatgac aatggcagat gtaaagttat tcttgaagtc agattgaggc
3361 tgggagacag ccgtagtaga tgttctactt tgttctgctg ttctctagaa agaatatttg
3421 gttttcctgt ataggaatga gattaattcc tttccaggta ttttataatt ctgggaagca
3481 aaacccatgc ctccccctag ccatttttac tgttatccta tttagatggc catgaagagg
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3601 gtgatctttt gttcccatcc tcttctttta gcagtaaaat agctgaggga aaagggaggg
3661 aaaaggaagt tatgggaata cctgtggtgg ttgtgatccc taggtcttgg gagctcttgg
3721 aggtgtctgt atcagtggat ttcccatccc ctgtgggaaa ttagtaggct catttactgt
3781 tttaggtcta gcctatgtgg atttttcct aacataccta agcaaaccca gtgtcaggat
3841 ggtaattett attetttegt teagttaagt tttteeette atetgggeae tgaagggata
3901 tgtgaaacaa tgttaacatt tttggtagtc ttcaaccagg gattgtttct gtttaacttc
3961 trataggaaa gettgagtaa aataaatatt gtetttttgt atgteaageg ggeegeeace
4021 gcggtggaaa ctccagctt
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(2) INFORMATION FOR SEQ ID NO:2904:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5670 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2904:

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1 ggatccccgc tgacaatcta gaaacaagca acagaccctc tgatgtagcc atctgtgccg
  61 cgcctctccg caccgcccgc cacgccttgg tccctggaga ccaccctcca gggcaggggc
 121 tgccgctcgg ccgggcccgc ggggtccctc ggcctgacat ggccggtgct ggagcggcac
 181 gtgcgcgcct cggcccctcg gccgctcccg cccctcgccg gtgcgcaccg gcgctcgggg
 241 agccgctggc ccgggtgtcc agccggccct tgccctgcct ggcgctcgga ccgccacctt
 301 tgccgcccc tcgccagcct ccgcagcttc cagactggcc ggtctgcgcg cccacccctg
 361 ceteceggae eggecacege eggaggeege ggaggaggge eeggeegege agateeeget
 421 tatcgggccc catctcccgt tacataaggc cacccccta tctccgcggg ccatcgccgc
 481 cgcaaccgcc gcgccagcgc cttctcccac gcgcgggggc gcccctgccc accgctcccg
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 601 gagttgcaca gaccaaggta gttccccgct ccttccccca tcacggagac cctgtgggag
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(2) INFORMATION FOR SEQ ID NO:2905:

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(i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 14978 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
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1741 ctggtagact gtggtcacag ccacagtgca ctaagactat ctgctcagca cttctggtga
1801 cccaaaaggg tetgaggaca ggageteaga gttgggteag etgteeaggt acteagggtt
1861 gtcacaggca aaactgctgg aactcagggc agcattgcaa atgccacgcc gctctcaggg
1921 ccccttgcct gccgctggaa ttaaacccac ccagatcttg gaaactctgc cctggaccct
1981 totcaataag tocatgagaa atcaaactot ttootttatg cgacactgga ttttccacaa
2041 agtaaaatca agatgagtaa agatgtggtt tctagatagt gcctgaaaaa gcagagacca
2101 tggtgtcagg cgtcaccact tgggcctata aaagctgcca caagacgcca aggccacaag
2161 ccaccagec tatgeateeg etecteaate eteteetgtt ggeactggge eteatggege
2221 ttttgttgac cacggtcatt gctctcactt gccttggcgg ctttgcctcc ccaggccctg
2281 tgcctccctc tacagccctc agggagctca ttgaggagct ggtcaacatc acccagaacc
2341 agaaggtgag tgtcggctag ccagggtcct agctatgagg gctccagggt gggtgattcc
2401 caagatgagg tcatgagcag gctgggcctg gtcctaagat gcctgtaggt caggaaaaat
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2461 ctccatggac caaggcccgg cccagccatg agggagagag gagctgggct ggggggctca
  2521 gcactgtgga tggacctatg gaggtgtctg gcagactccc cagggactac ctgctctcct
  2581 ggcctggcct tgtctgccac tgccagctcc tactcagcca ttcctgaaca gaggacagca
  2641 gagaagggcc agcaccetee cagaaccatg tggcatttgc caactggatt ttgaccataa
  2701 caatgcagec attetececa gcaccateat aggecegece ttacaggagg attegttagt
  2761 agagtccgct cettgcccca ctagtaacag ctcacatgtc tgagcactgc ttacaccagg
 2821 cctggtgcac gtgctttatg tgtcatttca tcactgccag ccacctcaag aggcaggtac
 2881 gatgaaccca ttctgctaag gttcagtgag gttaagtgac agaggctgga ttcaagccag
  2941 gectggecaa caccagagtg tecatgetee taactgeagt gtteeeteac catcagaagg
 3001 cagggcattt aatacaccag atccccaccg cctcccatct gatttgtctt ggtcaacagt
 3061 ggcccaggcc actectactt cactegtece caccetggcc ettecegcag geccetgtee
 3121 tectgeeetg actatggeaa geettgeatg cagettgtee ettactagtg gtgteaattt
 3181 ttttctctca gctccaagac cctaaacagt gggacctcac ccctatgcct gctgttcaaa
 3241 gcagaaaacg aagctcagga atgctgaggg gctgccaggc ctgcctctgt gccacaccag
 3361 acccetgeca geactetget cactgteact ttgeteccae aggeteeget etgeaatgge
 3421 agcatggtat ggagcatcaa cctgacagct ggcatggtaa ggacctttgg gtgcagggag
 3481 gatggggcag aggetecagg cettgggett atettetetg ageetecett ceatggetgg
 3541 ggttccaagc aagcttcaag tgctctcctc cctcccgcca taatctggcc ccttcccgcc
 3601 caccacccag actcacctgc gccaggcatc tcagccccat cttcctgcag actcacaaaa
 3661 ggcagetgee caageaggge etgaeeette ggtgteeeet eeceacagta etgtgeagee
 3721 ctggaatccc tgatcaacgt gtcaggctgc agtgccatcg agaagaccca gaggatgctg
 3781 ageggattet geeegeacaa ggteteaget ggggtaagge atececeace eteteacace
 3841 caccetgeae eccetectge caaccetggg ctegetgaag ggaagetgge tgaatateca
 3901 tggtgtgtgt ccacccaggg gtggggccat tgtggcagca gggacgtggc cttcgggatt
 3961 tacaggatet gggetcaagg geteetaact ectacetggg ceteaattte cacatetgta
 4021 cagtagaggt actaacagta cccacctcat ggggacttcc gtgaggactg aatgagacag
 4081 tecetggaaa geecetggtt tgtgcgagte gteecggeet etggegttet aeteacgtge
 4141 tgacctettt gteetgeage agtttteeag ettgeatgte egagacacea aaategaggt
 4201 ggcccagttt gtaaaggacc tgctcttaca tttaaagaaa ctttttcgcg agggacggtt
 4261 caactgaaac ttcgaaagca tcattatttg cagagacagg acctgactat tgaagttgca
 4321 gattcatttt tctttctgat gtcaaaaatg tcttgggtag gcgggaagga gggttaggga
 4381 ggggtaaaat toottagott agacotcago otgtgotgoo ogtottoago otagoogaco
 4441 tragcettee cettgerrag ggetraget ggtgggeete etetgtrag ggeeetgage
 4501 teggtggace cagggatgac atgteectae acceeteece tgeectagag cacactgtag
 4561 cattacagtg ggtgcccccc ttgccagaca tgtggtggga cagggaccca cttcacacac
 4621 aggcaactga ggcagacagc agctcaggca cacttettet tggtettatt tattattgtg
 4681 tgttatttaa atgagtgtgt ttgtcaccgt tggggattgg ggaagactgt ggctgctggc
 4741 acttggagcc aagggttcag agactcaggg ccccagcact aaagcagtgg accccaggag
 4801 tccctggtaa taagtactgt gtacagaatt ctgctacctc actggggtcc tggggcctcg
 4861 gagecteate egaggeaggg teaggagagg ggeagaacag eegeteetgt etgeeageea
 4921 gcagccagct ctcagccaac gagtaattta ttgtttttcc tcgtatttaa atattaaata
 4981 tgttagcaaa gagttaatat atagaagggt accttgaaca ctgggggagg ggacattgaa
 5041 caagttgttt cattgactat caaactgaag ccagaaataa agttggtgac agataggcct
 5101 gattgtattt gtctttcatt ttggcctttg gggacactgg tctgtggtct gaagactctg
 5161 aggagetett egggaggetg gtgggttgga ggaggggaet gggatggatt acagegaggg
 5221 tagggtgcag tgacctgggc tgaatgcaag ctagctcccg agggtgggga catggcctga
5281 aggaageeee acettetgte tgetgeacea geaaggaegg agaggettgg geeagaetgt
5341 cagggttcaa ggagggcatc aggagcagac ggagacccag gaagtctcac aatcacatct
5401 cctgaggact ggccagctgt gtctggcacc acccacacat ccatgtctcc ctcacaaccc
5461 aggaggccga tgagaactgt gaggctcaga aagcgtgggc ggtttgccta aggtcacgta
5521 gctacttcct cactggggtc ctggggcctc agagcctcat ctgaggtaaa ggagcaaagt
5581 tgggattggg gtccaaaatt cactttaact ccaaagccca cacacttaac cacctgcct
14949 atttctgtcc aaatgtcacc tgtcctgaat
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(2) INFORMATION FOR SEQ ID NO:2906:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1793 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2906:
- 1 caacacette agaaataate etttgggtga tetettgtea atcatttgtg caggetagag
- 61 aggcacctgt gaatgataag gctactgaga agcatcattg gcctggtcct ggcactacca 121 aagggcaggg gaagcgatgc ccaaggggct cctgaccagc acatcatccc acgcaaaaac
- 181 attetecagg tecettgtte caggeaggaa atececaget etgagegeee tgecaggget
- 241 ctgcctaggg acaccttttc caggtctaga gaatcaaagg agcctccaga gcagctagga
- 301 gggcctgagc tgaccaagca agccctgctc acaagacaaa tgcagtcaag acctgggtgt

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361 attacttgtc ttgagctctg aagggcaggg aggggtctga gcctcaaatc agacagagaa
 421 atgctcaagt cacttctgcc aactcactgt gatggcagct acagatgaca gcccctctca
 481 agactettea geteacagae aageeactga etteatetgt acaeaceece atecceaatg
 541 caageceact gtacaettae aggtataaat geatttgeaa ggeettgeaa aatgeeetat
 601 gtacgtaaaa ctgacccaca aaatccaaaa ttgcaagtgc cagatgccag ccaggtcaga
 661 acatectgge tteageaatg ggetgeteag catgggagee ttttatggge caggeetgge
 721 tgggctgccg ctcccttccc agcatgaccc aacaccaggc tctctaggcc ctggcggagg
 781 tgggctcttg aggcccagtc tggcctgatg cttctgtgct cggtgctcct gggtagcaag
 841 gcgcttctgt gaccctgggg gagctgggtg cttgagcccc aggcccctct ggcctcctct
 901 cagggccact gtcagtgagg gagccctggc caccagcact caggtcctgt accctcttgt
 961 tcaggtcatt gcgctctgtc tgcagtgccc ggcacagctt ctccagccgt tggatttta
1021 cctgcaggcc ctccagttct ttatcccgga ctgttttctc ctcagccatc tcaagcaggg
1081 ccttgttgct gctctcccac cgggaccggt acatggtggt ttctttctcc agcttcttga
1141 tettettägt eatettttee ateteetget tgaatgtggt gaataceteg etgettttgg
1201 aaagtgtgtt ctggaactcc tcaaacttct ctgtgtatag ggcaagctgt tgcttcaggt
1261 gggtctcttg ctgcttcatc agctcacaca tcctctggga ctctactgcc tctttcagga
1321 gaaaatcctt ctcccgctgg tgccgctctt ctgcctcctt tagcatctcc tgggcctgct
1381 ggagcttggc atccaccagc tgctgttgta ggtccttgtg tttgaagact ttgtcgatat
1441 gctcctcgcg cagctcatac tgctcaatca gcttcttgag cctctcagcc agctccatgt
1501 tetettggeg cagettggag ttgegeteat tgtgetgtte catetgeage tgaatgteat
1561 tcagtgtcac ctggaagtgc gaggtcacct ccttgcgctt ctcctcctcc tcccgggccc
1621 gctgcacacc ttcttccttg agggagcggt tgtgcccgtg cagctcacgg cataggctct
1681 caagettget gegggeeagg aeggettget gtgeteaeeg egeaggtggt eettetettg
1741 caccagetgg ctctgctttt tctgtaggag cttcatctgc ttctgtgaat tcc
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(2) INFORMATION FOR SEQ ID NO:2907:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1793 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2907:

1 caacaccttc agaaataatc ctttgggtga tctcttgtca atcatttgtg caggctagag 61 aggcacctgt gaatgataag gctactgaga agcatcattg gcctggtcct ggcactacca 121 aagggcaggg gaagcgatgc ccaaggggct cctgaccagc acatcatccc acgcaaaaac 181 attetecagg tecettgtte caggeaggaa atececaget etgagegeee tgeeaggget 241 ctgcctaggg acaccttttc caggtctaga gaatcaaagg agcctccaga gcagctagga 301 gggcctgagc tgaccaagca agccctgctc acaagacaaa tgcagtcaag acctgggtgt 361 attacttgtc ttgagctctg aagggcaggg aggggtctga gcctcaaatc agacagagaa 421 atgctcaagt cacttctgcc aactcactgt gatggcagct acagatgaca gcccctctca 481 agactettea geteacagae aageeactga etteatetgt acacacecee atececaatg 541 caageeeact gtacaettae aggtataaat geatttgeaa ggeettgeaa aatgeeetat 601 gtacgtaaaa ctgacccaca aaatccaaaa ttgcaagtgc cagatgccag ccaggtcaga 661 acatectgge tteageaatg ggetgeteag catgggagee ttttatggge caggeetgge 721 tgggctgccg ctcccttccc agcatgaccc aacaccaggc tctctaggcc ctggcggagg 781 tgggctcttg aggcccagtc tggcctgatg cttctgtgct cggtgctcct gggtagcaag 841 gcgcttctgt gaccctgggg gagctgggtg cttgagcccc aggcccctct ggcctcctct 901 cagggccact gtcagtgagg gagccctggc caccagcact caggtcctgt accctcttgt 961 tcaggtcatt gcgctctgtc tgcagtgccc ggcacagctt ctccagccgt tggattttta 1021 cctgcaggcc ctccagttct ttatcccgga ctgttttctc ctcagccatc tcaagcaggg 1081 ccttgttgct gctctcccac cgggaccggt acatggtggt ttctttctcc agcttcttga 1141 tettettagt catettttee ateteetget tgaatgtggt gaataceteg etgettttgg 1201 aaagtgtgtt ctggaactcc tcaaacttct ctgtgtatag ggcaagctgt tgcttcaggt 1261 gggtctcttg ctgcttcatc agctcacaca tcctctggga ctctactgcc tctttcagga 1321 gaaaatcctt ctcccgctgg tgccgctctt ctgcctcctt tagcatctcc tgggcctgct 1381 ggagcttggc atccaccagc tgctgttgta ggtccttgtg tttgaagact ttgtcgatat 1441 gctcctcgcg cagctcatac tgctcaatca gcttcttgag cctctcagcc agctccatgt 1501 tetettggeg cagettggag ttgegeteat tgtgetgtte catetgeage tgaatgteat 1561 tcagtgtcac ctggaagtgc gaggtcacct ccttgcgctt ctcctcctcc tcccgggccc 1621 gctgcacacc ttcttccttg agggagcggt tgtgcccgtg cagctcacgg cataggctct 1681 caagettget gegggeeagg aeggettget gtgeteaeeg egeaggtggt cettetettg 1741 caccagetgg ctctgctttt tctgtaggag cttcatctgc ttctgtgaat tcc

(2) INFORMATION FOR SEQ ID NO:2908:

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 1248 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2908:
    1 aaatcctggc tgtcatgtac ttgctatggg cctagagtag cttacctaaa tgctactaac
   61 cttcctccat accattattg taaagattaa aggtgatgca tctgttaagt aactaataga
  121 gtgcttatta aaaggtaggt gttcaataag tattaattcc ctccctttct ttttcttact
  241 tggatggatg getgetggaa acceettgee atagecaget ettetteaat aettaaggat
  301 ttaccgtggc tttgagtaat gagaatttcg aaaccacatt tgagaagtat ttccatccag
  361 tgctacttgt gtttacttct aaacagtcat tttctaactg aagctggcat tcatgtcttc
  421 attttgggat gcagctaata tacccagttg gcccaaagca cctaacctat agttatataa
  481 totgactoto agticagitt tactotacta atgoottoat ggiatiggga accatagati
  541 tgtgcagctg tttcagtgca gggcttccta aaacagaagc caactgggtg aatgtaataa
  601 gtgatttgaa aaaaattgaa gatcttattc aatctatgca tattgatgct actttatata
  661 cggaaagtga tgttcacccc agttgcaaag taacagcaat gaagtgcttt ctcttggagt
  721 tacaagttat ttcacttgag tccggagatg caagtattca tgatacagta gaaaatctga
  781 tcatcctagc aaacaacagt ttgtcttcta atgggaatgt aacagaatct ggatgcaaag
  841 aatgtgagga actggagaaa aaaaatatta aagaattttt gcagagtttt gtacatattg
  901 tccaaatgtt catcaacact tcttgattgc aattgattct ttttaaagtg tttctgttat
  961 taacaaacat cactctgctg cttagacata acaaaacact cggcatttca aatgtgctgt
 1021 caaaacaagt ttttctgtca agaagatgat cagaccttgg atcagatgaa ctcttagaaa
 1081 tgaaggcaga aaaatgtcat tgagtaatat agtgactatg aacttctctc agacttactt
 1141 tactcatttt tttaatttat tattgaaatt gtacatattt gtggaataat gtaaaatgtt
 (2) INFORMATION FOR SEQ ID NO:2909:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1202 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2909:
    1 tgtccggcgc cccccgggag ggaactgggt ggccgcaccc tcccggctgc ggtggctgtc
   61 gccccccacc ctgcagccag gactcgatgg agaatccatt ccaatatatg gccatgtggc
  121 tctttggagc aatgttccat catgttccat gctgctgctg acgtcacatg gagcacagaa
  181 atcaatgtta gcagatagcc agcccataca agatcgtatt gtattgtagg aggcatcgtg
 241 gatggatggc tgctggaaac cccttgccat agccagctct tcttcaatac ttaaggattt
 301 acceptggctt tgagtaatga gaatttcgaa accacatttg agaagtattt ccatccagtg
 361 ctacttgtgt ttacttctaa acagtcattt tctaactgaa gctggcattc atgtcttcat
 421 tttgggctgt ttcagtgcag ggcttcctaa aacagaagcc aactgggtga atgtaataag
 481 tgatttgaaa aaaattgaag atcttattca atctatgcat attgatgcta ctttatatac
 541 ggaaagtgat gttcacccca gttgcaaagt aacagcaatg aagtgctttc tcttggagtt
 601 acaagttatt tcacttgagt ccggagatgc aagtattcat gatacagtag aaaatctgat
 661 catcctagca aacaacagtt tgtcttctaa tgggaatgta acagaatctg gatgcaaaga
 721 atgtgaggaa ctggaggaaa aaaatattaa agaatttttg cagagttttg tacatattgt
 781 ccaaatgttc atcaacactt cttgattgca attgattctt tttaaagtgt ttctgttatt
 841 aacaaacatc actotgotgo ttagacataa caaaacacto ggoatttaaa atgtgotgto
 901 aaaacaagtt tttctgtcaa gaagatgatc agaccttgga tcagatgaac tcttagaaat
 961 gaaggcagaa aaatgtcatt gagtaatata gtgactatga acttctctca gacttacttt
1021 actcattttt ttaatttatt attgaaattg tacatatttg tggaataatg taaaatgttg
1081 aataaaaata tgtacaagtg ttgtttttta agttgcactg atattttacc tcttattgca
1141 aaatagcatt tgtttaaggg tgatagtcaa attatgtatt ggtggggctg ggtaccaatg
1201 ct
(2) INFORMATION FOR SEQ ID NO:2910:
   (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 14968 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2910:
   1 ggcattgtaa tcagacagaa ctggcctcaa atcctggctg tcatgtactt gctatgggcc
  61 tagagtaget tacetaaatg etaetaaeet teeteeatae eattattgta aagattaaag
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121 gtgatgcatc tgttaagtaa ctaatagagt gcttattaaa aggtaggtgt tcaataagta 181 ttaattccct ttctttcttt ttcttactag tgcacttgtg tttttaatgg atcatacttt

241	accctagatt	gtattgtagg	g aggcatcqtq	gatggatggc	tgctggaaac	cccttgccat
301	. agccagctct	: tcttcaatac	: ttaaggattt	accgtggctt	tgagtaatga	gaatttccgg
361	. taagaagaa <i>a</i>	ı aatagatgaa	ı aatatcctat	ggaatttccc	ttaaaggtcg	totgaatoto
421	. agagtetttç	r caataagtta	catggttatt	ctccaaagat	cttgagatat	cacagatgtc
481	. tgttcacatt	: tggattgttc	: ttattttgaa	aataaatagg	tttttaaaaa	ctctattgac
541	. catcttgata	ggctcttctt	: gtcattataa	atgtgttatt	tcacttatco	: cactctttc
601	. tgttctctaa	ı atgtctttgt	: actcactaaa	ttgtgtagtc	ttagagggca	agatatagat
991	. atcattcatc	: tttttgaaag	r qaaqcatqaa	caattagtgg	ttaaggtggg	agttaacact
/21	. gctttctgaa	. actttaaaag	cttcgacaac	acaaaaqaqq	caggtgaaag	taccaaaact
181	. ctggtaagtt	. gtaggataaa	ı tgattttcct	aaatcaccaa	gaaagattat	tagtcactct
841	. caagatggaa	: tacagtatct	gtaattggtt	ccattttatc	caatttttca	ccaaataata
901	. ttaatataat	tcattttcat	aatttacatg	aagttaatat	aactattgca	tctctgttag
961	. taatgcatgt	. tattaacctg	tgctgtataa	aatattttga	cctattaaaa	aagaaagaag
1021	. gatgaggagg	aggtcaaaga	. taatataaaa	actttaagtg	gtgacattgg	tatgtatgta
1081	aattaacaaa	. tatgtcaact	. ttgttaaatt	atctttgaca	tgcatctgca	gaaatatctg
1141	ttaaggaact	ttgtgcataa	gagacagagt	tggaggtggg	agagaaagtg	aaaaaagata
1201	aattatagtt	ttattattt	tgataagggg	cagtaattat	gaaattatga	caaacttaca
1201	tctttagacc	tagaaatatg	ttgacatgtt	attttaaacc	tcacttttta	actaaaaaat
1321	ttaaccattt	gtctatgatt	atattttca	gaaaccacat	ttgagaagta	tttccatcca
1//1	gigetaettg	tgtttacttc	taaacagtca	ttttctaact	gaagctggca	ttcatgtctt
1501	tataattaa	gtaattttat	ctttaggcat	aaataacatt	atgttcatgg	tcatgatgat
1561	actoretato	taracette	attaaattag	tttacgttca	gtttgcttat	atctctaggt
1621	taactgagga	tttttataa	aaggcagact	acagagattt	agagaggttt	ggtaaacacc
1681	aattagagca	tttastatt	cigiggtaat	agtccaaaca	agcattatag	ccctcaaata
1741	atttttcato	gcaattaaaa	addigaadtt	ggaagtatac	cacttattga	tagactacat
1801	ccctgacact	geaactaaaa	grayararr	agaatttgct	tatgttactt	ttttatctgt
1861	ttctttattt	aagcettttg	ttatttatt	ctttatccta ctaataaaat	gricagrita	aaacatttct
1921	taacttttt	cttctctctt	agatgcagct	aatataccca	gttggggg	ccatgactat
1981	ctatagttat	ataatctgac	totoaget	gttttactct	griggeeeaa	agcacctaac
2041	gggaaccata	gatttgtgca	ggtaattett	catcataaga	cagattagtc	ttangtatt
2101	tacttctata	taagatccat	caggaagtga	gtgattattt	ttcctcaagc	totagente
2161	attccaatgt	tacttggtca	gtataagtgt	attttgtctg	ratattaaat	tttaatttt
2221	atgaaatttg	tgaaagtgag	taagtatatg	atcattcagc	ctacactaga	atgaagtetg
2281	tactqtttat	ggagaaagct	gctgcaagca	tagtaagagt	ataaacaaca	taaaaaaaaa
2341	atgtttaatg	tagtgtaaaa	aaaatttact	atcaaaatca	ttacatgaaa	atrattatta
2401	ctcattttaa	gaattttacc	tatttattag	acttcaaagt	ctctgtaaat	ctctacttaa
2461	aggaaactag	taattcattc	aaaatcattt	attgagcatt	gccacacatc	tagcactact
2521	tctatttcat	tgtgataaat	tgagccagtt	tatttataaa	gtatgcctac	agttaggett
228T	ttctctaatc	cgggttggtg	aagcctcaag	ttatcataaa	atqccaaaat	tgtactatat
2641	gctcaatgtt	tatgttcagt	tacaaggctg	ttgaatgcac	agaagcaagg	ataacactga
2701	ttttttcact	ggtcagaata	aaaattattq	attgctcttt	tocttatagt	attcatcaag
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(2) INFORMATION FOR SEQ ID NO:2911:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 486 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2911:

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- 361 taacagaatc tggatgcaaa gaatgtgagg aactggagga aaaaaatatt aaagaatttt
- 421 tgcagagttt tgtacatatt gtccaaatgt tcatcaacac ttcttgattg caattgattc
- 481 ctcgag

(2) INFORMATION FOR SEQ ID NO:2912:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17904 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2912:
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					atattccttg	
					ttgtggcacc	
					ctttgatttt	
					gaaagaacag	
					taaaaattct ttaccctttc	
					tctagtttca	
					gttttggttt	
					tcttaaggat	
10501	tttataaaat	atttggattg	actttttgaa	aatcaaaatt	acatcagtat	gaaaattaat
					agcccagttg	
					ttgagtccgg	
					acagtttgtc	
					ttgggcctga	
					agaaggagtc caatgctaaa	
					agtgtgcttc	
					gtgtttattg	
		-		-	atcaataata	
11101	tttattgagt	tattactgta	tgccagacac	tattctttga	gctttaaatt	gataattcat
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					acagctagta	
					atctcatgag	
					taatctggga	
					tactcgtatg gctttcatgg	
					agaggcataa	
					aaaaaatacc	
					agcaaatgag	
11701	gttatttatg	aagtccagtg	gtgaaaaagg	acacagggta	ggggcactgg	ggctccagtt
					tgagagaatg	
					gcaaaggccc	
					ctttaggtct	
					cttccctatc tattttatgt	
	-		-	-	agtgtttttg	
					taaatacttt	
					atctccatct	
12241	aagagtgagc	cacgcaacag	gtaactcatg	gcaaaataaa	tgatgagctc	tttaatgtga
					gtgctggaat	
12361	gactgcacag	tcagaagacc	tggatgggaa	gaatttcagt	tgattatgtc	agttgagatg
					aggatcaaat	
					gataaatgtc	
					tttgctggca atttggaaca	
					acctaaatgg	
					ctagggaaac	
					agtataaaaa	
					tctaaataag	
					gggttcagag	
					ctaaaatagg	
					gctgtgcatg	
					caagggggat	
					cagggaggca caggaactcc	
					ggaaaaataa	
					ctatttattt	
					tattcccatt	
15891	tatatttaat	ttaattataa	attgccaatt	taatctctct	ctatattttg	cagaatgtaa
					aaatattaaa	
					ttgattgcaa	
					tagacataac	
					aagatgatca agtaatatag	
					ttgaaattgt	
- V2-J1	Jecoloccay	LUCLUCLUA		cuucciatia	cegadacege	Loudantinge

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16311 ggaataatgt aaaatgttga ataaaaatat gtacaagtgt tgttttttaa gttgcactga
16371 tattttacct cttattgcaa aatagcattt gtttaagggt gatagtcaaa ttatgtattg
16431 gtggggctgg gtaccaatgc tgcaggtcaa cagctatgct ggtaggctcc tgccagtgtg
16491 gaaccactga ctactggctc tcattgactt ccttactaag catagcaaac agaggaagaa
16551 tttgttatca gtaagaaaaa gaagaactat atgtgaatcc tcttctttat actgtaattt
16611 agttattgat gtataaagca actgttatga aataaagaaa ttgcaataac tggcatataa
16671 tgtccatcag taaatcttgg tggtggtggc aataataaac ttctactgat aggtagaatg
16731 gtgtgcaagc ttgtccaatc acggattgca ggccacatgc ggcccaggac aactttgaat
16791 gtggcccaac acaaattcat aaactttcat acatctcgtt tttagctcat caqctatcat
16851 tagcggtagt gtatttaaag tgtggcccaa gacaattctt cttattccaa tgtggcccag
16911 ggaaatcaaa agattggatg cccctggtat agaaaactaa tagtgacagt gttcatattt
16971 catgctttcc caaatacagg tattttattt tcacattctt tttgccatgt ttatataata
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17091 atattttttg cactacactg tctaaaatta gcaagctctc ttctaatgga actgtaagaa
17151 agatgaaata tttttgtttt attataaatt tatttcacct taattctggt aatactcact
17211 gagtgactgt ggggtgggaa atgatctctt aagaatttga tttctttcta ttccatagta
17271 caaactcgtt ctctgttgaa acattcttct atcaccccag tgccctatcc atgtacatgt
17331 gttcttattg ctctagtcaa acggtgctta taaatatctt tcagaaagct taggagaaat
17391 ctgtatccta tttgacttcc aataatca
17419 cggattggga tcggacctac ttgattcact tctgggaaat caaggatcta cgtaccatgg
17479 attttcaggt gcagattttc agcttcctgc taatcagtgc ctcagtcata atgtctagag
17539 ccaactgggt gaatgtaata agtgatttga aaaaaattga agatcttatt caatctatgc
17599 atattgatgc tactttatat acggaaagtg atgttcaccc cagttgcaaa gtaacagcaa
17659 tgaagtgctt tctcttggag ttacaagtta tttcacttga gtccggagat gcaagtattc
17719 atgatacagt agaaaatctg atcatcctag caaacaacag tttgtcttct aatgggaatg
17779 taacagaatc tggatgcaaa gaatgtgagg aactggagga aaaaaatatt aaagaatttt
17839 tgcagagttt tgtacatatt gtccaaatgt tcatcaacac ttcttgattg caattgattc
17899 ctcgag
```

(2) INFORMATION FOR SEQ ID NO:2913:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1610 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2913:

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1 cccagagcag cgctcgccac ctcccccgg cctgggcagc gctcgcccgg ggagtccagc
  61 ggtgtcctgt ggagctgccg ccatggcccc gcggcgggcg cgcggctgcc ggaccctcgg
 121 teteceggeg etgetactge tgetgetget eeggeegeeg gegaegeggg geateaegtg
 181 ccctccccc atgtccgtgg aacacgcaga catctgggtc aagagctaca gcttgtactc
 241 cagggagcgg tacatttgta actctggttt caagcgtaaa gccggcacgt ccagcctgac
 301 ggagtgcgtg ttgaacaagg ccacgaatgt cgcccactgg acaaccccca gtctcaaatg
 361 cattagagac cctgccctgg ttcaccaaag gccagcgcca ccctccacag taacgacggc
 421 aggggtgacc ccacagccag agagcctctc cccttctgga aaagagcccg cagcttcatc
 481 tcccagctca aacaacacag cggccacaac agcagctatt gtcccgggct cccagctgat
 541 gccttcaaaa tcaccttcca caggaaccac agagataagc agtcatgagt cctcccacgg
 601 cacccctct cagacaacag ccaagaactg ggaactcaca gcatccgcct cccaccagcc
 661 gccaggtgtg tatccacagg gccacagcga caccactgtg gctatctcca cgtccactgt
 721 cctgctgtgt gggctgagcg ctgtgtctct cctggcatgc tacctcaagt caaggcaaac
 781 tececegetg gecagegttg aaatggaage catggagget etgeeggtga ettgggggae
 841 cagcagcaga gatgaagact tggaaaactg ctctcaccac ctatgaaact cggggaaacc
 901 agcccagcta agtccggagt gaaggagcct ctctgcttta gctaaagacg actgagaaga
 961 ggtgcaagga agcgggctcc aggagcaagc tcaccaggcc tctcagaagt cccagcagga
1021 tctcacggac tgccgggtcg gcgcctcctg cgcgagggag caggttctcc gcattcccat
1081 gggcaccacc tgcctgcctg tcgtgccttg gacccagggc ccagcttccc aggagagacc
1141 aaaggettet gageaggatt tttattteat tacagtgtga getgeetgga atacatgtgg
1201 taatgaaata aaaaccctgc cccgaatctt ccgtccctca tcctaacttg cagttcacag
1261 agaaaagtga catacccaaa gctctctgtc aattacaagg cttctcctgg cgtgggagac
1321 gtctacaggg aagacaccag cgtttgggct tctaaccacc ctgtctccag ctgctctgca
1381 cacatggaca gggacctggg aaaggtggga gagatgctga gcccagcgaa tcctctccat
1441 tgaaggattc aggaagaaga aaactcaact cagtgccatt ttacgaatat atgcgtttat
1501 atttatactt ccttgtctat tatatctata cattatatat tatttgtatt ttgacattgt
1561 accttgtata aacaaaataa aacatctatt ttcaatattt ttaaaatgca
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(2) INFORMATION FOR SEQ ID NO:2914:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 393 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2914:

- 1 atgcctgacc tcaactcctc cactgactct gcagcctcag cctctgcagc cagtgatgtt 61 tctgtagaat ctacagcaga ggccacagtc tgcacggtga cactggagaa gatgtcggca
- 121 gggctgggct tcagcctgga aggagggaag ggctccctac acggagacaa gcccctcacc
- 181 attaacagga ttttcaaagg agcagcctca gaacaaagtg agacagtcca gcctggagat
- 241 gaaatettge agetgggtgg cactgecatg cagggeetea caeggtttga ageetggaae
- 301 atcatcaagg cactgcctga tggacctgtc acgattgtca tcaggagaaa aagcctccag
- 361 tccaaggaaa ccacagctgc tggagactcc tag
- (2) INFORMATION FOR SEQ ID NO:2915:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3175 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2915:
- 1 tgcttaaaaa aacacaacag gattttcgaa gaatcctttc ttagaaaaca aacaaaaaaa 61 ccaaacaaaa acgtactttc tccccactag tttacaccac aggaagcgag agagctgctg 121 ccactgctgc taccacagga agacacagca gggagaagcc ctagtgcctc tgccggctgc 181 ccaggacctg gtatcggccc acagaccaag tcctccacag agggcgagcc agggtggaga 241 agagecagee cagtgaceca aacateeeeg ataaaacace caetgettaa gaggeagget 301 cggatggact atagctttga taccacagcc gaagaccctt gggttaggat ttctgactgc 361 atcaaaaact tatttagccc catcatgagt gagaaccatg gccacatgcc tctacagccc 421 aatgccagcc tgaatgaaga agaagggaca cagggccacc cagatgggac cccaccaaag 481 ctggacaccg ccaatggcac tcccaaagtt tacaagtcag cagacagcag cactgtgaag 541 aaaggteete etgtggetee caagecagee tggtttegee aaagettgaa aggtttgagg 601 aatcgtgctt cagagccaag agggctccct gatcctgcct tgtccaccca gccagcacct 661 gcttccaggg agcacctagg atcacacatc cgggcctcct cctcctcctc ctccatcagg 721 cagagaatca gctcctttga aacctttggc tcctctcaac tgcctgacaa aggagcccag 781 agactgagee tecageeete etetggggag geageaaaac etettgggaa geatgaggaa 841 ggacggtttt ctggactctt ggggcgaggg gctgcaccca ctcttgtgcc ccagcagcct 901 gagcaagtac tgtcctcggg gtcccctgca gcctccgagg ccagagaccc aggtgtgtct 961 gagtcccctc ccccagggcg gcagcccaat cagaaaactt tcccccctgg cccggacccg 1021 ctcctaaggc tgctgtcaac acaggctgag gaatctcaag gcccagtgct caagatgcct 1081 agccagcgag cacggagett eccectgace aggteecagt cetgtgagae gaagetaett 1141 gacgaaaaga ccagcaaact ctattctatc agcagccaag tgtcatcggc tgtcatgaaa 1201 teettgetgt geetteeate ttetatetee tgtgeecaga eteeetgeat eeceaaggea 1261 ggggcatctc caacatcatc atccaacgaa gactcagctg caaatggttc tgctgaaaca 1321 tctgccttgg acacggggtt ctcgctcaac ctttcagagc tgagagaata tacagagggt 1381 ctcacggaag ccaaggaaga cgatgatggg gaccacagtt cccttcagtc tggtcagtcc 1441 gttatctccc tgctgagctc agaagaatta aaaaaactca tcgaggaggt gaaggttctg 1501 gatgaagcaa cattaaagca attagacggc atccatgtca ccatcttaca caaggaggaa 1561 ggtgctggtc ttgggttcag cttggcagga ggagcagatc tagaaaacaa ggtgattacg 1621 gttcacagag tgtttccaaa tgggctggcc tcccaggaag ggactattca gaagggcaat 1681 gaggttettt ccateaacgg caagtetete aaggggaeea egeaceatga tgeettggee 1741 atcctccgcc aagetcgaga gcccaggcaa gctgtgattg tcacaaggaa gctgactcca 1801 gaggccatgc ccgacctcaa ctcctccact gactctgcag cctcagcctc tgcagccagt 1861 gatgtttctg tagaatctac agcagaggcc acagtctgca cggtgacact ggagaagatg 1921 tcggcagggc tgggcttcag cctggaagga gggaagggct ccctacacgg agacaagcct 1981 ctcaccatta acaggatttt caaaggagca gcctcagaac aaagtgagac agtccagcct 2041 ggagatgaaa tettgeaget gggtggeact geeatgeagg geeteacaeg gtttgaagee 2101 tggaacatca tcaaggcact gcctgatgga cctgtcacga ttgtcatcag gagaaaaagc 2161 ctccagtcca aggaaaccac agctgctgga gactcctagg caggacatgc tgaagccaaa 2221 gccaataaca cacagctaac acacagctcc cataaccgct gattctcagg gtctctgctg 2281 ccgccccacc cagatggggg aaagcacagg tgggcttccc agtggctgct gcccaggccc 2341 agaccttcta ggacgccacc cagcaaaagg ttgttcctaa aataagggca gagtcacact 2401 ggggcagctg atacaaattg cagactgtgt aaaaagagag cttaatgata atattgtggt 2461 gccacaaata aaatggattt attagaattc catatgacat tcatgcctgg cttcgcaaaa 2521 tgtttcaagt actgtaactg tgtcatgatt cacccccaaa cagtgacatt tatttttctc 2581 atgaatctgc aatgtgggca gagattggaa tgggcagctc atctctgtcc cacttggcat 2641 cagctggcgt catgcaaagt catgcaaagg ctgggaccac ctgagatcat tcactcatac 2701 atctggccgt tgatgttggc tgggaactca cctggggctg ctggcctgaa tgcttatagg 2761 tggcctctcc ttgtggcctg ggctcctcac aacatggtgt ctggattccc aggatgagca 2821 teccaggate geaagageea egtagaaget geatettgtt tatacetttg cettggaagt 2881 tgcatggcat cacctccacc atactccatc agttagagct gacacaaacc tgcctgggtt



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2941 taaggggaga ggaaatattg ctggggtcat ttatgaaaaa tacagtttgt cacatgaaac
   3001 atttgcaaaa ttgtttttgg ttggattgga gaagtaatcc tagggaaggg tggtggagcc
   3061 agtaaataga ggagtacagg tgaagcacca agctcaaagc gtggacaggt gtgccgacag
   3121 aaggaaccag cgtgtatatg agggtatcaa ataaaattgc tactacttac ctacc
  (2) INFORMATION FOR SEQ ID NO:2916:
     (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 3568 base pairs
       (B) TYPE: nucleic acid
       (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2916:
     1 atgcctgacc tcaactcctc cactgactct gcagcctcag cctctgcagc cagtgatgtt
    61 tetgtagaat etacageaga ggccacagte tgcacggtga cactggagaa gatgteggca
   121 gggctgggct tcagcctgga aggagggaag ggctccctac acggagacaa gcccctcacc
   181 attaacagga ttttcaaagg agcagcctca gaacaaagtg agacagtcca gcctggagat
   241 gaaatettge agetgggtgg caetgeeatg cagggeetea caeggtttga ageetggaae
   301 atcatcaagg cactgcctga tggacctgtc acgattgtca tcaggagaaa aagcctccag
   361 tecaaggaaa ceacagetge tggagaetee tag
   394 tgcttaaaaa aacacaacag gattttcgaa gaatcctttc ttagaaaaca aacaaaaaaa
   454 ccaaacaaaa acgtactttc teeccactag tttacaccac aggaagegag agagetgetg
   514 ccactgctgc taccacagga agacacagca gggagaagcc ctagtgcctc tgccggctgc
   574 ccaggacctg gtatcggccc acagaccaag tcctccacag agggcgagcc agggtggaga
   634 agagccagcc cagtgaccca aacateeceg ataaaacacc cactgettaa gaggcagget
   694 cggatggact atagctttga taccacagcc gaagaccctt gggttaggat ttctgactgc
   754 atcaaaaact tatttagccc catcatgagt gagaaccatg gccacatgcc tctacagccc
   814 aatgccagcc tgaatgaaga agaagggaca cagggccacc cagatgggac cccaccaaag
   874 ctggacaccg ccaatggcac teccaaagtt tacaagtcag cagacagcag cactgtgaag
   934 aaaggteete etgtggetee caageeagee tggtttegee aaagettgaa aggtttgagg
   994 aatcgtgctt cagagccaag agggctccct gatcctgcct tgtccaccca gccagcacct
 1054 gettecaggg ageacetagg ateacate egggeeteet ceteeteete etceateagg
 1114 cagagaatca gctcctttga aacctttggc tcctctcaac tgcctgacaa aggagcccag
 1174 agactgagec tecagecete etetggggag geageaaaac etettgggaa geatgaggaa
 1234 ggacggtttt ctggactctt ggggcgaggg gctgcaccca ctcttgtgcc ccagcagcct
 1294 gagcaagtac tgtcctcggg gtcccctgca gcctccgagg ccagagaccc aggtgtgtct
 1354 gagtcccctc ccccagggcg gcagcccaat cagaaaactt tcccccctgg cccggacccg
 1414 ctcctaagge tgctgtcaac acaggetgag gaatetcaag geecagtget caagatgeet
 1474 agccagcgag cacggagett eccectgace aggteecagt cetgtgagac gaagetaett
 1534 gacgaaaaga ccagcaaact ctattctatc agcagccaag tgtcatcggc tgtcatgaaa
 1594 tecttgetgt geettecate ttetatetee tgtgeecaga etecetgeat ecceaaggea
 1654 ggggcatctc caacatcatc atccaacgaa gactcagctg caaatggttc tgctgaaaca
 1714 tetgeettgg acaeggggtt etegeteaac ettteagage tgagagaata tacagagggt
 1774 ctcacggaag ccaaggaaga cgatgatggg gaccacagtt cccttcagtc tggtcagtcc
 1834 gttatctccc tgctgagctc agaagaatta aaaaaactca tcgaggaggt gaaggttctg
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 1954 ggtgctggtc ttgggttcag cttggcagga ggagcagatc tagaaaacaa ggtgattacg
 2014 gttcacagag tgtttccaaa tgggctggcc tcccaggaag ggactattca gaagggcaat
 2074 gaggttettt ccatcaacgg caagtetete aaggggacca egeaccatga tgeettggee
 2134 atcetecgee aagetegaga geecaggeaa getgtgattg teacaaggaa getgaeteea
 2194 gaggccatgc ccgacctcaa ctcctccact gactctgcag cctcagcctc tgcagccagt
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2314 teggeaggge tgggetteag cetggaagga gggaaggget ceetacaegg agacaageet
2374 ctcaccatta acaggatttt caaaggagca gcctcagaac aaagtgagac agtccagcct
2434 ggagatgaaa tettgeaget gggtggeact geeatgeagg geeteacaeg gtttgaagee
2494 tggaacatca tcaaggcact gcctgatgga cctgtcacga ttgtcatcag gagaaaaagc
2554 ctccagtcca aggaaaccac agctgctgga gactcctagg caggacatgc tgaagccaaa
2614 gccaataaca cacagetaac acacagetee cataaceget gatteteagg gtetetgetg
2674 ccgccccacc cagatggggg aaagcacagg tgggcttccc agtggctgct gcccaggccc
2734 agacetteta ggacgecace cagcaaaagg ttgtteetaa aataagggea gagteacaet
2794 ggggcagctg atacaaattg cagactgtgt aaaaagagag cttaatgata atattgtggt
2854 gccacaaata aaatggattt attagaattc catatgacat tcatgcctgg cttcgcaaaa
2914 tgtttcaagt actgtaactg tgtcatgatt cacccccaaa cagtgacatt tatttttctc
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3214 teccaggate geaagageea egtagaaget geatettgtt tatacetttg cettggaagt
3274 tgcatggcat cacctccacc atactccatc agttagaget gacacaaacc tgcctgggtt
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3334 taaggggaga ggaaatattg ctggggtcat ttatgaaaaa tacagtttgt cacatgaaac
3394 atttgcaaaa ttgtttttgg ttggattgga gaagtaatcc tagggaaggg tggtggagcc
3454 agtaaataga ggagtacagg tgaagcacca agctcaaagc gtggacaggt gtgccgacag
3514 aaggaaccag cgtgtatatg agggtatcaa ataaaattgc tactacttac ctacc
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- (2) INFORMATION FOR SEQ ID NO:2917:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9203 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2917:
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3361	agaagagtta	acattocaa	acatattaca		++	tttaaaattt
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4741	cagcatctct	atgcctcaat	cttccctgca	caccacacca	actenacete	atcatcacat
4801	tacttggcta	tateceacet	gggttagaca	gcttcagtgg	ctgaagtcca	tagatettat
4861	tctattttc	gaggtccacc	tgactctgaa	tccagctgac	atttctccc	ttagattata
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5221	gagcaacttc	Cigatgaagt	gagactcagc	ttgcactgtt	gaccggctgt	cctggatgaa
5201	cctagttact	tttaaccaaa	tgttcctttc	ttgaactigt	tcctttcttg	aacttaatct
5341	atcaatgtta	tctagataac	tttcctcaaa	aaaaaaaaa	aaaaaaaaa	ccctctacta
5401	ggaaagaaat	ctttgaaccg	gacttattgg	aaattacctc	cttgcagcag	gtttgaaaca
5461	aaactttgaa	tttgcctcac	aaagaatttq	tctgaaactg	ctttagtata	tgctagttat
2271	atttgtatgc	acatgtggct	tcatacatag	taattaaaca	cccatatoto	ttatgcactt
2281	tgttaggtga	cgtaagttca	cagataaact	ggaacatagg	gctatectet	agaggcccac
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6121	gtatggcgat	tcctcaage	totaaaatca	gaaataccat	ttaccatt	guggaagaca
6181	ctaggtatat	acccaaagca	atagaaatga	ttctactata	ccgacccagc	aatcctatta
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6301	ctacataaac	aaaatataat	aataytaaaa	rggaaccaac	tgaaatgccc	atcaatgaga
6361	taagataaag	toottoon	acatatacac	catggaatac	tatgcagcca	tgaaaaggaa
6/21	agateacy	cocceggeag	ggacatggat	gaagctggaa	gccattatcc	tcagcaaact
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6481	gacagcacat	agacataggg	aggggaacat	cacacgccag	ggcctgctgc	agggtggggg
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990T	cacacttata	cctatgtaac	caacctgcac	gttctacaca	totatector	aacttaaatt
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0/8T	aaaaggcctc	ctggaggaag	ggacactcaa	atatettee	atttcacctq	taaactcatt
6841	aagggcaaaa	gctttgctac	agcttcagta	tgagatcctg	ggcaatccgt	gacaaaatgg
6901	gtctgctttt	gcacccccaa	cttcttctca	catccctgca	teataceata	carcatcaac
6961	tggaaacctc	agcgtcagca	aacgacgaca	gagcgttcat	ccataacata	aaccacaaaaa
7021	gccagttcaa	tgacttgt++	aaccatooto	catctcagaa	ccaacacttc	accayadda
7081	ttaccacaaa	aattotooo	actttatat	atggctttaa	ananatete	ggcctcttat
7141	acataataac	tcacacctat	aatooos	atttaan ==	aaaaatCttg	Laaltgccag
7201	aaddtcadda	atteasesse	accededa	ctttgggagg	ccgaggtggg	tgaatcgcct
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1201	cyclocaaaa	aaaaaaaaaa	aatacattaa	cataaattta	aatattttat	aatgacaatc



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(2) INFORMATION FOR SEQ ID NO:2918:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2335 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2918:

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141	ggccccccgc	agagaaagac	ctccqcttca	ctaccccaac	taatcccaaa	aatcaaaaa
101	arggaricat	acctgctgat	gtggggactg	ctcacqttca	tcatggtgcc	taactaccaa
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201	cacaaggaag	gaaccatgtt	gaactqtqaa	tacaaaaaaa	gtttccgcag	aataaaaaac
201	gggtcactet	atatgetetg	tacaggaaac	tetagecact	catactagaa	caaccaatgt
421	caatgcacaa	gctctgccac	teggaacaca	acqaaacaaq	tgacacctca	acctgaagaa
401	cayaaayaaa	yyaaaaccac	agaaatgcaa	agtccaatgc	agccagtgga	ccaagegage
241	citcaggic	actgcaggga	acctccacca	taggaaaata	aadccacada	gagaatttat
001	carridgigg	tggggcagat	ggtttattat	cagtgcgtcc	agggatacag	gactctacac
001	ayayyıccıy	ctgagagcgt	ctgcaaaatq	acccacggga	agacaaggtg	gacccagccc
121	caycicatat	gcacaggtga	aatqqaqacc	agtcagtttc	caggtgaaga	gaagecteag
101	ycaayccccg	aaggccgtcc	tgagagtgag	acttcctgcc	tegteacaac	aacadatttt
041	caaacacaga	cagaaatggc	tgcaaccatg	gagacgtcca	tatttacaac	agagtaccag
301	grageagrag	ccggctgtgt	tttcctqctq	atcagcgtcc	tectectgag	tagactcacc
201	rggcaycgga	gacagaggaa	gagtagaaga	acaatctaga	aaaccaaaag	aacaacaatt
1021	ccccygraag	aayccgggaa	caqacaacag	aagtcatgaa	acccaaataa	aatcaaacct
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TTAT	cacatcacag	gacacggggc	agtggcaacc	ttgtctctat	gccagctcag	teccateaga
1201	gagegagege	tacccacttc	taaatagcaa	tttcaccatt	naanannaan	ddcaaaacca
1201	Clayadelet	ccatcttatt	ttcatqtata	tatattcatt	aaagcatgaa	taatataaaa
1321	CLUCCCAC	cctatatgta	gtataaagaa	aagtaggttt	acattcatct	cattccaact
1201	teccagteca	ggagtcccaa	ggaaagcccc	agcactaacg	taaatacaca	acacacac
T 4 4 T	tttaccctat	acaactggac	attqtctqcq	taatteettt	ctcagccgct	tetgactget
1301	garreceeg	ttcacgttgc	ctaataaaca	teetteaaga	actitiogget	actacccara
1301	aaltaltita	cccttggctc	aatcctctaa	getaaccccc	ttctactgag	ccttcagtct
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  1861 acacacaagg tgcaaatcaa tgcgtacgtt tcctgagaag tgtctaaaaa caccaaaaag
 1921 ggatccgtac attcaatgtt tatgcaagga aggaaagaaa gaaggaagtg aagagggaga
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 2041 ggtggctcag gcctataacc ccagctccct aggagaccaa ggcgggagca tctcttgagg
 2101 ccaggagttt gagaccagcc tgggcagcat agcaagacac atccctacaa aaaattagaa
 2161 attggctgga tgtggtggca tacgcctgta gtcctagcca ctcaggaggc tgaggcagga
 2221 ggattgettg agcccaggag ttcgaggctg cagtcagtca tgatggcacc actgcactcc
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 (2) INFORMATION FOR SEQ ID NO:2919:
    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 1092 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2919:
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  121 gatagcataa cagggtgact ttagtcaaca ataatttatt gtacatttaa aaataactaa
  181 aagagtatac ttggatttta acacaaagaa aggataaata cttgaggtga tggatacccc
  241 atttaccctg atgigattat tatacatigt atgcctgtat caaaatagct caigtgcctc
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  361 tgaatgctaa acggagtaag gggcttcctg gaaggctggg tgaaatggga gtctcggaaa
  421 gatggtgtgt tgcaggctgg gaggagggtg agacgctggg gtcacctaga gggacctgct
  481 tgtgtgaagc ctacgtatta gtgggtatgt gtgtgaccgg atggaggcgt cagaggtgtt
  541 gggtagcctg tgtgagttgg cgtgggggtg atgtaggagg ggagagaggg agggcctgcg
  601 ttcccttggc tcctgtgtgc agctaggccc ctatttgaca atgtgtgtct gtgtgtgtgt
  661 gtgtgtgtgt gtgtgtgtgt gtgtgccgcc cccagcgtag gaggcagatc tttatctggc
  721 cetgggtget tgaggagttt caggetttet cataageete gteteceege etetecaeee
  781 caggeettge cectetatee tetgeacagg aagtgggetg getetggget tttagtettt
  841 gcggccccag cagccagagc tcagcagggc cctggagaga tggccacggt cccagcaccg
  901 gggaggactg gagagcgcgc gctgccaccg ccccatgtct cagccaggtg atgtccccct
  961 gcctccctcc cggcccctgt ggaccagcca gagggctggg agtgaaagtc acagagaaga
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(2) INFORMATION FOR SEQ ID NO:2920:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1451 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2920:
   1 gaagagcaag cgccatgttg aagccatcat taccattcac atccctctta ttcctgcagc
  61 tgcccctgct gggagtgggg ctgaacacga caattctgac gcccaatggg aatgaagaca
 121 ccacagetga tttcttcctg accactatge ccactgacte cetcagtgtt tecactetge
 181 ccctcccaga ggttcagtgt tttgtgttca atgtcgagta catgaattgc acttggaaca
 241 gcagctctga gccccagcct accaacctca ctctgcatta ttggtacaag aactcggata
 301 atgataaagt ccagaagtgc agccactatc tattctctga agaaatcact tctggctgtc
 361 agttgcaaaa aaaggagatc cacctctacc aaacatttgt tgttcagctc caggacccac
 421 gggaacccag gagacaggcc acacagatgc taaaactgca gaatctggtg atcccctggg
 481 ctccagagaa cctaacactt cacaaactga gtgaatccca gctagaactg aactggaaca
 541 acagattett gaaccactgt ttggagcaet tggtgcagta eeggactgae tgggaecaca
 601 gctggactga acaatcagtg gattatagac ataagttctc cttgcctagt gtggatgggc
 661 agaaacgcta cacgtttcgt gttcggagcc gctttaaccc actctgtgga agtgctcagc
 721 attggagtga atggagccac ccaatccact gggggagcaa tacttcaaaa gagaatcctt 781 tcctgtttgc attggaagcc gtggttatct ctgttggctc catgggattg attatcagcc
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 901 tagaggatet tgttactgaa taccacggga acttitegge etggagtggt gtgtetaagg
 961 gactggctga gagtctgcag ccagactaca gtgaacgact ctgcctcgtc agtgagattc
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1081 cctactgggc cccccatgt tacaccctaa agcctgaaac ctgaacccca atcctctgac
1141 agaagaaccc cagggtcctg tagccctaag tggtactaac tttccttcat tcaacccacc
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1201 tgcgtctcat actcacctca ccccactgtg gctgatttgg aattttgtgc ccccatgtaa 1261 gcaccccttc atttggcatt ccccacttga gaattaccct tttgccccga acatgtttt



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1321 cttctccctc agtctggccc ttccttttcg caggattctt cctccctccc tctttccctc
  1381 ccttcctctt tccatctacc ctccgattgt tcctgaaccg atgagaaata aagtttctgt
  1441 tgataatcat c
 (2) INFORMATION FOR SEQ ID NO:2921:
    (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 1563 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
     (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2921:
    1 gagagactgg atggacccac aagggtgaca gcccaggcgg accgatcttc ccatcccaca
   61 teeteeggeg cgatgecaaa aagaggetga eggeaactgg geettetgea gagaaagace
  121 tecgetteae tgeccegget ggteccaagg gteaggaaga tggatteata cetgetgatg
  181 tggggactgc tcacgttcat catggtgcct ggctgccagg cagagctctg tgacgatgac
  241 ccgccagaga tcccacacgc cacattcaaa gccatggcct acaaggaagg aaccatgttg
  301 aactgtgaat gcaagagagg tttccgcaga ataaaaagcg ggtcactcta tatgctctgt
  361 acaggaaact ctagccactc gtcctgggac aaccaatgtc aatgcacaag ctctgccact
  421 cggaacacaa cgaaacaagt gacacctcaa cctgaagaac agaaagaaag gaaaaccaca
  481 gaaatgcaaa gtccaatgca gccagtggac caagcgagcc ttccaggtga agagaagcct
  541 caggcaagcc ccgaaggccg teetgagagt gagaetteet geetegteac aacaacagat
  601 tttcaaatac agacagaaat ggctgcaacc atggagacgt ccatatttac aacagagyac
  661 caggtagcag tggccggctg tgttttcctg ctgatcagcg tcctcctcct gagtgggctc
  721 acctggcagc ggagacagag gaagagtaga agaacaatct agaaaaccaa aagaacaaga
  781 atttcttggt aagaagccgg gaacagacaa cagaagtcat gaagcccaag tgaaatcaaa
  841 ggtgctaaat ggtcgcccag gagacatccg ttgtgcttgc ctgcgttttg gaagctctga
  901 agtcacatca caggacacgg ggcagtggca accttgtctc tatgccagct cagtcccatc
  961 agagagegag egetacecae ttetaaatag caatttegee gttgaagagg aagggeaaaa
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 1081 gaactetete caccetatat gtagtataaa gaaaagtagg tttacattca teteatteea
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 1201 cactetacce tatacaactg gacattgtct gcgtggttcc tttctcagcc gcttctgact
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 1501 aatcatactt agcaaagtit tacctgtgcg ttactaattg gcctctitaa gagttagttt
 1561 ctt
(2) INFORMATION FOR SEQ ID NO:2922:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 733 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2922:
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  61 cctgaccaga atcttgtcag gactttgctc cttcatccca ggtggtcccg gctgactcct
 121 gaggacgtta cagccctgag gggaggactc agccttatga agtgctgggt gagaccactg
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 241 gcgtagtgaa gaaaggattc ataaatgaag ttcaatcctt ctcatcaacc ccagcccaca
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 361 gtcatcaaaa aaaaaaaaaaaacactt cctatatttg agatgagaga agagagtgct
 421 aggcagtttc ctggctgaac acgccagccc aatacttaaa gagagcaact cctgactccg
 481 atagagactg gatggaccca caagggtgac agcccaggcg gaccgatctt cccatcccac
 541 atcctccggc gcgatgccaa aaagaggctg acggcaactg ggccttctgc agagaaagac
 601 ctccgcttca ctgccccggc tggtcccaag ggtcaggaag atggattcat acctgctgat
 661 gtggggactg ctcacgttca tcatggtgcc tggctgccag gcaggtaagg gcctgtgggt
 721 gccccggaa ttc
(2) INFORMATION FOR SEQ ID NO:2923:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 756 base pairs
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- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2923:



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   61 aaggaaggaa ccatgttgaa ctgtgaatgc aagagaggtt tccgcagaat aaaaagcggg
 121 tcactctata tgctctgtac aggaaactct agccactcgt cctgggacaa ccaatgtcaa
 181 tgcacaagct ctgccactcg gaacacaacg aaacaagtga cacctcaacc tgaagaacag
 241 aaagaaagga aaaccacaga aatgcaaagt ccaatgcagc cagtggacca agcgagcctt
 301 ccaggtcact gcaaggaacc tccaccatgg gaaaatgaag ccacagagag aatttatcat
 361 ttcgtggtgg ggcagatggt ttattatcag tgcgtccagg gatacagggc tctacacaga
 421 ggtcctgctg agagcgtctg caaaatgacc cacgggaaga caaggtggac ccagccccag
 481 ctcatatgca caggtgaaat ggagaccagt cagtttccag gtgaagagaa gcctcaggca
 541 agccccgaag gccgtcctga gagtgagact tcctgcctcg tcacaacaac agattttcaa
 601 atacagacag aaatggctgc aaccatggag acgtccatat ttacaacaga gtaccaggta
 661 gcagtggccg gctgtgtttt cctgctgatc agcgtcctcc tcctgagtgg gctcacctgg
 721 cagcagagac agaggaagag tagaagaaca atctag
(2) INFORMATION FOR SEQ ID NO:2924:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 711 base pairs
    (B) TYPE: nucleic acid
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- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2924:

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 61 cctgaccaga atcttgtcag gactttgctc cttcatccca ggtggtcccg gctgactcct
121 gaggacgtta cagccctgag ggaggactca gcttatgaag tgctgggtga gaccactgcc
181 aagaagtgct tgctcaccta ccttcaacgg caggggaatc tccctctcct tttatgggcg
241 tagctgaaga aaggattcat aaatgaagtt caatccttct catcacccca gcccaacctc
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361 tcaaaaaaaa aaaaaaaaa aaacacttcc tatatttgag atgagagaag agagtgctag
421 gcagttteet ggetgaacae geeageecaa taettaaaga gageaaetee tgaeteegat
481 agagactgga tggacccaca agggtgacag cccaggcgga ccgatcttcc catcccacat
541 cctccggcgc gatgccaaaa agaggctgac ggcaactggg ccttctgcag agaaagacct
601 ccgcttcact gccccggctg gtcccaaggg tcaggaagat ggattcatac ctgctgatgt
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661 ggggactgct cacgttcatc atggtgcctg gctgccaggc aggtaagggc c

(2) INFORMATION FOR SEQ ID NO:2925:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 17944 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2925:
- 1 gaattcatgc cacaactgag tgatttttt tttctcaaac ccaattccac aaagtaaaag 61 cctgatgaaa tacagtgaag gctgatgctt attaactgtg tttcccaaat ccagagctct 121 aaaaaggttc tgcatacagt cattcattca atgcttaacg actgagcatt aattccatgc 181 taagtactga actcagcact aggaataaga aggcgaccta gaggcatatc ctctctaa 241 agatgcatag agcctcattg gaatgatcag ccgtgtctcc agagagctac aaggcagttt 301 tcaattggta aatgccctga gagtgatggg cttgtggcat gtgtaagggt tagacagacc 361 tgggacctag acatgacacc actcctgacg aattatgtga gtgtgggtgt ttcacaacca 421 caatgagatg caatgcctgc acttgtaaca tggaaatagt gatggcatgc cccgcagatt 481 gctgtgagaa gtcagcggca gagacatgca acattctcag cacagtgctt gccatgtagt 541 aagggeetag teagtgetag tgatteettt caatatteet aagatgeaga taagggaaca 601 gcccagagga gggggagcac ttccagaggg aggaatgcgg tgagacttcc ttcagcaggg 661 tagcactgga gctgggtgtt aaggagtgag tgagctttgg gcttatggat ttaacagagg 721 aaaccaagaa aagaggaggc ggtgttgcag gaacagtgag cagttgatga tttttatttt 781 gttctctggt ctgcttggga acatttttgt ggcaaagaca gcatgaagga tagcgaagaa 841 ttaatactga agagataggc cagggcaggt tatgaaggat tttgaatacc gggctaagaa 901 atgtgggctt aatttcaaag acattatgga cactcctaaa atgttacgtt gtagataagg 961 gaaaagtatt cttccagaag attaaattgg ggctgggcac ggtggctcac gcctgtgatc 1021 ccagcacttt gggaggcgaa gtgggcagat cacctgaggt caggagtttg agatcagcct 1081 ggccaacgtg gtgaagcccc atctctactg aaaaaaaaa ttagccgggc atggtggtgg 1141 gtgcctgtaa tetcagetae ttgggagget gaageaggag aatcacatga acctgggagg 1201 cagaggttgc agtgagccaa gattgcacca ctgcattcca gtgggcgaca gagcaagact 1261 cagtcaaaaa aaaaaaaaga ttaaactgga agcaatgggt aagaatggtg gagtggagag 1321 acacatttga gtgagggaag ccagctgaaa agctgtacag acgtctagac aaaatgtgac 1381 acaagcatgc cttcacctcc ctgcaaagac cacagaccac tgagctccaa agggggtttg



1441	. gaatccttgt	cctgggccgd	cattggtaac	: tcatcagtgo	tggcttgaga	gataaactct
1501	. attatccato	: cctgaactaa	ı aatcatgaca	gaagtggcca	gggagcttto	ctoctatccc
1561	. cccaggaaad	: acgtcctcca	ı ctcaaatgga	aagaggacco	tctgacaaca	tctgtgggac
1621	ccaacagcad	: tggtcaccac	: aagccacaaa	atgttaacaa	agtcagtttt	caattottao
1681	ggacggagga	ctcagttcat	gattcataca	aaccaactgt	tctctcccag	tgttttctgg
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180T	atttgattca	ı tagtggattt	tggttttcca	cgggacccct	gtgcccttgt	ctagtagaat
1861	ctggtggaaa	ı ttacaaactg	cagaaattca	actcagtgcc	gcaataacag	gatgcacctg
1921	tagatttcgt	: agaattagca	gcagcattct	ttcaatacca	gtttgagaga	aataaccctg
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2041	ggcaccgatc	: tcagcaacat	ctatccaacc	gccatccact	taacaagcaa	agatggaagg
2101	ccctcgtgct	ccaggetate	ctgcaatggt	tcatttgctt	ttgatgggat	tatcactttg
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2221	accaccagget	cttggggagc	aaaaaccctt	ctttgtttgt	ttttgcttct	cccagagcct
2201	gggcagagcu	cccattcct	ggatcctacg	ttgatatgca	ctgaattgaa	ttatactaaa
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2581	gattttggct	ctasasasas	agetaget	cccagaaagc	aaagggttat	ctcctgttcg
2641	atgagagagt	gaggetgett	teatesteete	accactecte	tagagaaaag	aaagtctaag
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2761	ctctttgagg	agactgtgag	catactaat	gcagggctat	attttagggeee	attectte
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3481	ctctgccact	ctcctcagca	tgacttctcc	ctaatcggcc	agcatttctt	ttattctata
3541	gagcaagttt	tcttgccctg	ggcacctctc	atttgcatgt	tataccacca	caccaagtga
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3661	tcctcttggc	agcctgtagt	ctccagagtg	acacgtcctc	aacagtcaaa	gtgagcaagc
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3/81	ttcttcctta	tcccatcctt	cctccttcct	tttttttct	gcattcaatt	attcatggtt
3041	attcatttca	tacgggcatc	tgtgccactt	ggttctacag	gcatttttt	ttttgagaca
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4021	geatgtggg	aggitteaage	aagtctcctg	ccttagcctc	ccaagtagct	ggaattacag
4081	ttaaccaaac	tagtata	caaatttttg	tatttttagt	agagacaggg	tttcaccatg
4141	atactagaet	aacaggggtg	aggatagt	caggtgatct	gcctgcctcg	gcctcccaaa
4201	gaccgttaac	aacccccaac	agccatcyty	ctcggccggt ggaaaatgaa	tctatgggca	ttgtggaagt
4261	cctctcccct	tttttcctct	actetttace	cctgctcccc	aggtgattga	ttcctcacca
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4621	catccaggca	ttaccaacto	cattttccct	ttgcctgata	ttctaacatc	aagcctcctt
4681	gccattccaa	tttatttcac	cttcctccan	tccttatgat	ttccttcctc	aagagtattt
4741	cagcatctct	atgcctcaat	cttccctaca	caccacacca	acteaacete	atcatcacat
4801	tacttggcta	tgtcccgcct	gggttagaca	gcttcagtgg	ctgaagtcca	tagatettat
4861	tctgtttttc	gaggtccacc	tgactctgaa	tccaqctqac	atttctgccc	ttagcttcta
4921	cccctctcta	cttctggtta	actatggacc	acactctgct	tcctcaggaa	ccacctacca
4981	aggccgtatc	catccttcaa	ggacaatacq	tgggcctttc	ctgatcacat	cageteaaca
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5101	gtacgtctag	aaagaaagtg	gtcttaaacc	taagggaagg	cagtctaggt	cagaaatttg
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5221	gagcaatttc	ctgatgaagt	gagactcagc	ttgcactgtt	gaccggctgt	cctggatgaa
5281	cctagttact	tttaaccaaa	tgttcctttc	ttgaacttgt	tcctttcttg	aacttaatct
5341	atcaatgtta	tctagataac	tttcctcaaa	aaaaaaaaa	aaaaaaaaa	ccctctacta
		ctttgaaccg				
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	_	acatgtggct			-	
	-	cgtaagttca	-			
		cttaacctga	-		-	
		gctcacactt				-
		gagtctgaga				
		aattagccag				and the second s
		aggatcactt				
		cagaaacccc				
	-	aaacttccta				=
		ccaaaggttc				
		tcctcaagca				
		acccaaagga		_		
		cactatttac	_			
		aaaatgtgat				
		tccttggcag				
		cagaaaacca		-		
		agacataggg				
		aggggaggga				
		cctatgtaac	_	_		
		aagagttttt	-			
	_	tgaattgcaa				
		ctggaggaag				
		gctttgctac				
		gcacccccaa		-		-
		agcgtcagca				
	-	tgacttgttt		_		
		aattgtgggg				
		tcacacctgt				
		gttcgagacc	-		-	
		gctggatgtg				
		cacttgaacc				
		aaaaaaaaa				
		acttaaagca				
		gaagaaagga	-			
		agagtgagaa				
		tcatattttg				
		gtggcgcaat				
		cagcctcctg				
		ttttagtaga				
		gtgatctgcc	tgcctcagcc	tcccaaagtg	ctggaattac	
		ggctaatttt				
	gtcatccagg	ctggtctcaa	actcctgacc	tcaggtgatc	cacccacctt	ggtctaccaa
8041	gtcatccagg agtgctcgga	ctggtctcaa ttacaggcat	actcctgacc gagccaccag	tcaggtgatc gcccagtcaa	cacccacctt cgtgatgtgt	ggtctaccaa tttggaaccc
8041 8101	gtcatccagg agtgctcgga tgaattcctt	ctggtctcaa ttacaggcat ggcttgccgg	actcctgacc gagccaccag agggttttct	tcaggtgatc gcccagtcaa ttttgttaat	cacccacctt cgtgatgtgt atctttgctt	ggtctaccaa tttggaaccc gctttctagt
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17834 ccgcttcact gccccggctg gtcccaaggg tcaggaagat ggattcatac ctgctgatgt
17894 ggggactget cacgttcatc atggtgcctg gctgccaggc aggtaaggge c
(2) INFORMATION FOR SEQ ID NO:2926:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 544 base pairs
     (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2926:
   1 aagettaata taaacaagtt tettgteact gecaccacca egaccaaaaa aagetaatea
  181 atatatatta tgaatgtata tatatagtat atatagtata tatactatgt atgtatatat
 241 agtatatata gtatatatac tatgtatgat atatagtata tatagtatat atactatgta
 361 atatatagta tatatactgt gtatgtatat atatagtata tatatactat atatgcatac
 421 atagtatata tgcatatata ctatatatac tatatatta tatatactat atactatata
 481 tactatatac tgtatatata ctatatatgt atgtatacga tatatatata tactatatat
 541 gtac
(2) INFORMATION FOR SEQ ID NO:2927:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2002 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2927:
   1 cagagaaget etateteece tecaggagee cagetatgaa eteettetee acaagegeet
  61 teggtecagt tgeettetee etggggetge teetggtgtt geetgetgee tteeetgeee
 121 cagtacccc aggagaagat tccaaagatg tagccgcccc acacagacag ccactcacct
 181 cttcagaacg aattgacaaa caaattcggt acatcctcga cggcatctca gccctgagaa
 241 aggagacatg taacaagagt aacatgtgtg aaagcagcaa agaggcactg gcagaaaaca
 301 acctgaacct tccaaagatg gctgaaaaag atggatgctt ccaatctgga ttcaatgagg
 361 agacttgcct ggtgaaaatc atcactggtc ttttggagtt tgaggtatac ctagagtacc
 421 tccagaacag atttgagagt agtgaggaac aagccagagc tgtgcagatg agtacaaaag
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481 tcctgatcca gttcctgcag aaaaaggcaa agaatctaga tgcaataacc acccctgacc 541 caaccacaaa tgccagcctg ctgacgaagc tgcaggcaca gaaccagtgg ctgcaggaca 601 tgacaactca tctcattctg cgcagcttta aggagttcct gcagtccagc ctgagggctc 661 ttcggcaaat gtagcatggg cacctcagat tgttgttgtt aatgggcatt ccttcttctg gtcagaaacc tgtccactgg gcacagaact tatgttgttc tctatggaga actaaaagta 781 tgagcgttag gacactattt taattattt taatttatta atatttaaat atgtgaagct gagttaattt atgtaagtga tatttatatt ttaagaagta ccacttgaaa cattttatgt

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901 attagttttg aaataataat ggaaagtggc tatgcagttt gaatatcctt tgtttcagag
  961 ccagatcatt tcttggaaag tgtacgctta cctcaaataa atggctaact tatacatatt
 1021 tttaaagaaa tatttatatt gtatttatat aatgtataaa atggttttta taccaataaa
 1081 tggcatttta aaaaattcag ca
(2) INFORMATION FOR SEQ ID NO:2928:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1113 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2928:
   1 gaatteeggg aacgaaagag aagetetate teeesteeag gageeeaget atgaacteet
  61 tetecacaag egeetteggt ecagttgeet tetecetggg getgeteetg gtgttgeetg
  121 ctgccttccc tgccccagta cccccaggag aagattccaa agatgtagcc gccccacaca
  181 gacagecact cacctettea gaacgaattg acaaacaaat teggtacate etegaeggea
  241 teteageest gagaaaggag acatgtaaca agagtaacat gtgtgaaage ageaaagagg
  301 cactggcaga aaacaacctg aaccttccaa agatggctga aaaagatgga tgcttccaat
 361 ctggattcaa tgaggagact tgcctggtga aaatcatcac tggtcttttg gagtttgagg
 421 tatacctaga gtacctccag aacagatttg agagtagtga ggaacaagcc agagctgtgc
 481 agatgagtac aaaagtcctg atccagttcc tgcagaaaaa ggcaaagaat ctagatgcaa
 541 taaccacccc tgacccaacc acaaatgcca gcctgctgac gaagctgcag gcacagaacc
 601 agtggctgca ggacatgaca actcatctca ttctgcgcag ctttaaggag ttcctgcagt
 661 ccagcctgag ggctcttcgg caaatgtagc atgggcacct cagattgttg ttgttaatgg
 721 gcatteette ttetggteag aaacetgtee aetgggeaca gaaettatgt tgttetetat
 781 ggagaactaa aagtatgagc gttaggacac tattttaatt atttttaatt tattaatatt
 841 taaatatgtg aagctgagtt aatttatgta agtcatattt atatttttaa gaagtaccac
 901 ttgaaacatt ttatgtatta gttttgaaat aataatggaa agtggctatg cagtttgaat
 961 atcctttgtt tcagagccag atcatttctt ggaaagtgta ggcttacctc aaataaatgg
1021 ctaacttata catatttta aagaaatatt tatattgtat ttatataatg tataaatggt
1081 ttttatacca ataaatggca ttttaaaaaa ttc
(2) INFORMATION FOR SEQ ID NO:2929:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2759 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2929:
   1 aagcttaata taaacaagtt tottgtcact gccaccacca cgaccaaaaa aagctaatca
  181 atatatatta tgaatgtata tatatagtat atatagtata tatactatgt atgtatatat
 241 agtatatata gtatatac tatgtatgat atatagtata tatagtatat atactatgta
 361 atatatagta tatatactgt gtatgtatat atatagtata tatatactat atatgcatac
 421 atagtatata tgcatatata ctatatatac tatatatta tatatactat atactatata
 481 tactatatac tgtatatata ctatatatgt atgtatacga tatatatata tactatatat
 541 gtac
 545 cagagaaget etateteece teeaggagee cagetatgaa eteettetee acaagegeet
 605 teggteeagt tgeettetee etggggetge teetggtgtt geetgetgee tteeetgeee
 665 cagtaccccc aggagaagat tccaaagatg tagccgcccc acacagacag ccactcacct
 725 cttcagaacg aattgacaaa caaattcggt acatcctcga cggcatctca gccctgagaa
 785 aggagacatg taacaagagt aacatgtgtg aaagcagcaa agaggcactg gcagaaaaca
 845 acctgaacct tccaaagatg gctgaaaaag atggatgctt ccaatctgga ttcaatgagg
 905 agacttgcct ggtgaaaatc atcactggtc ttttggagtt tgaggtatac ctagagtacc
 965 tccagaacag atttgagagt agtgaggaac aagccagagc tgtgcagatg agtacaaaag
1025 tectgateca gtteetgeag aaaaaggeaa agaatetaga tgeaataace acceetgace
1085 caaccacaaa tgccagcctg ctgacgaagc tgcaggcaca gaaccagtgg ctgcaggaca
1145 tgacaactca teteattetg egeagettta aggagtteet geagteeage etgagggete
1205 ttcggcaaat gtagcatggg cacctcagat tgttgttgtt aatgggcatt ccttcttctg
1265 gtcagaaacc tgtccactgg gcacagaact tatgttgttc tctatggaga actaaaagta
1325 tgagcgttag gacactattt taattattt taatttatta atatttaaat atgtgaagct
1385 gagttaattt atgtaagtga tatttatatt ttaagaagta ccacttgaaa cattttatgt
1445 attagttttg aaataataat ggaaagtggc tatgcagttt gaatatcctt tgtttcagag
1505 ccagatcatt tcttggaaag tgtacgctta cctcaaataa atggctaact tatacatatt
1565 tttaaagaaa tatttatatt gtatttatat aatgtataaa atggttttta taccaataaa
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1625 tggcatttta aaaaattcag ca
 1647 gaatteeggg aacgaaagag aagetetate teeesteeag gageeeaget atgaacteet
 1707 tetecacaag egeetteggt ecagttgeet tetecetggg getgeteetg gtgttgeetg
 1767 ctgccttccc tgccccagta cccccaggag aagattccaa agatgtagcc gccccacaca
 1827 gacagecaet cacetettea gaacgaattg acaaacaaat teggtacate etegaeggea
 1887 teteageeet gagaaaggag acatgtaaca agagtaacat gtgtgaaage agcaaagagg
 1947 cactggcaga aaacaacctg aaccttccaa agatggctga aaaagatgga tgcttccaat
 2007 ctggattcaa tgaggagact tgcctggtga aaatcatcac tggtcttttg gagtttgagg
 2067 tatacctaga gtacctccag aacagatttg agagtagtga ggaacaagcc agagctgtgc
 2127 agatgagtac aaaagtcctg atccagttcc tgcagaaaaa ggcaaagaat ctagatgcaa
 2187 taaccacccc tgacccaacc acaaatgcca gcctgctgac gaagctgcag gcacagaacc
 2247 agtggctgca ggacatgaca actcatctca ttctgcgcag ctttaaggag ttcctgcagt
 2307 ccagcctgag ggctcttcgg caaatgtagc atgggcacct cagattgttg ttgttaatgg
 2367 gcatteette ttetggtcag aaacetgtee actgggeaca gaacttatgt tgttetetat
 2427 ggagaactaa aagtatgagc gttaggacac tattttaatt atttttaatt tattaatatt
 2487 taaatatgtg aagctgagtt aatttatgta agtcatattt atatttttaa gaagtaccac
 2547 ttgaaacatt ttatgtatta gttttgaaat aataatggaa agtggctatg cagtttgaat
 2607 atcctttgtt tcagagccag atcatttctt ggaaagtgta ggcttacctc aaataaatgg
 2667 ctaacttata catattttta aagaaatatt tatattgtat ttatataatg tataaatggt
 2727 ttttatacca ataaatggca ttttaaaaaa ttc
(2) INFORMATION FOR SEQ ID NO:2930:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1194 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2930:
    1 ggatcctcct gcaagagaca ccatcctgag gggaagaggg cttctgaacc agcttgaccc
   61 aataagaaat tettgggtge egaeggggae ageagattea gageetagag eegtgeetge
  121 gtccgtagtt tccttctagc ttctttttga tttcaaatca agacttacag ggagagggag
  181 cgataaacac aaactctgca agatgccaca aggtcctcct ttgacatccc caacaaagaa
  241 ggtgagtagt aatctccccc tttctgccct gaaccaagtg gcttcagtaa gtttcagggc
 301 tccaggagac ctgggcatgc aggtgccgat gaaacagtgg tgaagagact cagtggcagt
 361 ggcagtgggg agagcactcg cagcacaggc aaacctctgg cacaagagca aagtcctcac
  421 tggaggattc ccaagggtca cttgggagag ggcaggcagc agccaacctc ctctaagtgg
  481 gctgaagcag gtgaagaaat ggcagaagac gcggtggtgg caaaaaggag tcacacactc
 541 cacctggaga cgccttgaag taactgcacg aaatttgagg gtggccaggc agttctacaa
  601 cageegeete acagggagag ecagaacaea geaagaaete agatgaetgg tagtattaee
  661 ttetteataa teeeaggett ggggggetge gatggagtea gaggaaaete agtteagaae
 721 atctttggtt tttacaatac aaattaactg gaacgctaaa ttctagcctg ttaatctggt
 781 cactgaaaaa aaaaaaattt tttttttttc aaaaaacata gctttagctt attttttt
 841 tetetttgta aaaettegtg catgaettea getttaetet tgteaagaea tgeeaagtge
 901 tgagtcacta ataaagaaaa aagaagtaaa ggaagagtgg ttctgcttct tagcgctagc
 961 ctcaatgacg acctaagctg cacttttccc cctagttgtg tcttgcgatg ctaaaggacg
1021 tcattgcaca atcttaataa ggtttccaat cagccccacc cgctctggcc ccaccctcac
1081 cctccaacaa agatttatca aatgtgggat tttcccatga gtctcaatat tagagtctca
1141 acccccaata aatataggac tggagatgtc tctgaggctc attctgccct cgag
(2) INFORMATION FOR SEQ ID NO:2931:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 3319 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2931:
   1 ggcggtcccc tgttctcccc gctcaggtgc ggcgctgtgg caggaagcca cccctcggt
  61 cggccggtgc gcggggctgt tgcgccatcc gctccggctt tcgtaaccgc accctgggac
 121 ggcccagaga cgctccagcg cgagttcctc aaatgttttc ctgcgttgcc aggaccgtcc
 181 gccgctctga gtcatgtgcg agtgggaagt cgcactgaca ctgagccggg ccagagggag
 241 aggageegag egeggegegg ggeegaggga etegeagtgt gtgtagagag eegggeteet
 361 cetgecacee etgecgeceg gtteceatta geetgteege etetgeggga ceatggagtg
 421 gtagccgagg aggaagcatg ctggccgtcg gctgcgcgct gctggctgcc ctgctggccg
 481 cgccgggagc ggcgctggcc ccaaggcgct gccctgcgca ggaggtggca agaggcgtgc
 541 tgaccagtet gecaggagae agegtgaete tgacctgeee ggggggtagag ceggaagaea
 601 atgccactgt tcactgggtg ctcaggaagc cggctgcagg ctcccacccc agcagatggg
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661 ctggcatggg aaggaggctg ctgctgaggt cggtgcagct ccacgactct ggaaactatt
  721 catgctaccg ggccggccgc ccagctggga ctgtgcactt gctggtggat gttcccccg
  781 aggagececa geteteetge tteeggaaga geeceeteag caatgttgtt tgtgagtggg
  841 gtcctcggag caccccatcc ctgacgacaa aggctgtgct cttggtgagg aagtttcaga
  901 acagtecgge cgaagactte caggagecgt gecagtatte ccaggagtee cagaagttet
  961 cctgccagtt agcagtcccg gagggagaca gctctttcta catagtgtcc atgtgcgtcg
 1021 ccagtagtgt cgggagcaag ttcagcaaaa ctcaaacctt tcagggttgt ggaatcttgc
 1081 agectgatee geetgecaae ateacagtea etgeegtgge cagaaacee egetggetea
 1141 gtgtcacctg gcaagacccc cactcctgga actcatcttt ctacagacta cggtttgagc
 1201 tcagatatcg ggctgaacgg tcaaagacat tcacaacatg gatggtcaag gacctccagc
 1261 atcactgtgt catccacgac gcctggagcg gcctgaggca cgtggtgcag cttcgtgccc
 1321 aggaggagtt cgggcaaggc gagtggagcg agtggagccc ggaggccatg ggcacgcctt
1381 ggacagaatc caggagtcct ccagctgaga acgaggtgtc cacccccatg caggcactta
1441 ctactaataa agacgatgat aatattetet teagagatte tgeaaatgeg acaageetee
1501 cagtgcaaga ttettettea gtaccactge ceacatteet ggttgetgga gggageetgg
1561 cetteggaac geteetetge attgecattg ttetgaggtt caagaagaeg tggaagetge
1621 gggctctgaa ggaaggcaag acaagcatgc atccgccgta ctctttgggg cagctggtcc
1681 cggagaggcc tcgacccacc ccagtgcttg ttcctctcat ctccccaccg gtgtccccca
1741 gcagcctggg gtctgacaat acctcgagcc acaaccgacc agatgccagg gacccacgga
1801 gcccttatga catcagcaat acagactact tettececag atagetgget gggtggcace
1861 agcagectgg accetgtgga tgacaaaaca caaacggget cagcaaaaga tgetteteac
1921 tgccatgcca gcttatctca ggggtgtgcg gcctttggct tcacggaaga gccttgcgga
1981 aggttctacg ccaggggaaa atcagcctgc tccagctgtt cagctggttg aggtttcaaa
2041 cetecettte caaatgeeca gettaaaggg gttagagtga acttgggeea etgtgaagag
2101 aaccatatca agactetttg gacacteaca eggacactea aaagetggge aggttggtgg
2161 gggcctcggt gtggagaage ggctggcage ccaeceetea acaeetetge acaagetgca
2221 cecteaggea ggtgggatgg atttecagee aaageeteet ceageegea tgeteetgge
2281 ccactgcate gittcatett ccaactcaaa ctettaaaac ccaagtgccc ttagcaaatt
2341 ctgttťttct aggcctgggg acggctttta cttaaacgcc aaggcctggg ggaagaagct
2401 ctctcctccc tttcttccct acagttcaaa aacagctgag ggtgagtggg tgaataatac
2461 agtatgtcag ggcctggtcg ttttcaacag aattataatt agttcctcat tagcagtttt
2521 gcctaaatgt gaatgatgat cctaggcatt tgctgaatac agaggcaact gcattggctt
2581 tgggttgcag gacctcaggt gagaagcaga ggaaggagag gagaggggca cagggtctct
2641 accatecect gtagagtggg agetgagtgg gggateaeag cetetgaaaa ecaatgttet
2701 etetteteca ecteccacaa aggagageta geageaggga gggettetge cattletgag
2761 atcaaaacgg ttttactgca gctttgtttg ttgtcagctg aacctgggta actagggaag
2821 ataatattaa ggaagacaat gtgaaaagaa aaatgagcct ggcaagaatg cgtttaaact
2881 tggtttttaa aaaactgctg actgttttct cttgagaggg tggaatatcc aatattcgct
2941 gtgtcagcat agaagtaact tacttaggtg tgggggaagc accataactt tgtttagccc
3001 aaaaccaagt caagtgaaaa aggaggaaga gaaaaaatat tttcctgcca ggcatggagg
3061 cccacgcact tcgggaggtc gaggcaggag gatcacttga gtccagaagt ttgagatcag
3121 cctgggcaat gtgataaaac cccatctcta caaaaagcat aaaaattagc caagtgtggt
3181 agagtgtgcc tgaagtccca gatacttggg gggctgaggt gggaggatct cttgagcctg
3241 ggaggtcaag gctgcagtga gccgagattg caccactgca ctccagcctg gggtgacaga
3301 gcaagtgaga ccctgtctc
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(2) INFORMATION FOR SEQ ID NO:2932:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4513 base pairs
 - (B) TYPE: nucleic acid
- . (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2932:

_				J. 2 7 2 2 .		
1	ggatcctcct	gcaagagaca	ccatcctgag	gggaagaggg	cttctgaacc	accttcacco
		Lettagggtge	Cuacuddac	agcagattca	Caccctacac	000tanh
121	gtccgtagtt	tccttctagc	ttcttttta	tttcaaatca	agectagag	ccgcgcccgc
181	cqataaacac	aaactctgca	agatgccaga	200taatea	ayacttacag	ggagagggag
241	ggtgagtagt	aaactctgca	tttatas	aggicetect	ttgacatccc	caacaaagaa
301	tocaggagaga	aatctccccc	rrrergecet	gaaccaagtg	gcttcagtaa	gtttcagggc
-,	coouggagac	crygycardc	addidccdar	gaaacagtgg	traararart	000toon-
	9904949999	agagcactco	cadcacaddc	aaacctctcc	Cacaagagga	330taataa
	rggaggattt	ccaayyytta	cttadaaaaa	adcaddcadc	adccaacete	atataa
481	gctgaagcag	gtgaagaaat	ggcagaagac	acaataataa	Caaaaaaaaaa	tosasasas
541	cacctggaga	cgccttgaag	taactgcacg	222+++4244	caaaaaggag	tcacacactc
601	cageogeete	acanggagag	caaccycacy	aaacccgagg	gradecagge	agttctacaa
661	ttcttcataa	acagggagag	ccayaacaca	gcaagaactc	agatgactgg	tagtattacc
		Luccayycll	qqqqqctac	gatggagtca	Caccapacto	20++02
		cctacaatac	adattaacro	gaacgctaaa	ttctaccctc	+++
	-accyatataa	aaaaaaalil	TUTUTETER	aaaaaacata	actttaactt	~++++++++
841	tctctttgta	aaacttcgtg	catgacttca	gctttactct	totcaagaca	taccaaatac
				-		

001					
901 tgagto	acta ataaagaaa	a aagaagtaaa	a ggaagagtgg	ttctgcttct	tagcgctagc
JUI CLCaal	gacy acctaaget	g cacttttcc	: cctagttgtg	tettacaata	r ctasaggagg
TOZI CCALLO	icaca atottaata	a qqtttccaat	- Cadececace	cactetaace	ccaccatasa
TOUT CCCCC	acaa ayatttatc	a aatgtgggat	: tttcccatda	atctcaatat	tagagtatas
1141 acccc	aata aatatagga	c tagagatata	: tctmaggctc	attetaceet	. cagagicica
1195 gacaat	cccc tgttctccc	c actcadatac	acceptates	actorgood	. cgag
1255 caacca	atac acaaaacta	t tacaaaataa	ggtgttgtgg	caggaagcca	cccctcggt
1315 ggccca	gtgc gcggggctg	~ cgcgccaccc	geteeggett	tegtaacege	: accctgggac
1375 ggccca	gaga cgctccagc	g cgagtteete	: aaatgttttc	ctgcgttgcc	: aggaccgtcc
1435 accaca	ctga gtcatgtgc	g agrgggaagt	: cgcactgaca	ctgagccggg	ccagagggag
± 100 aggage	cyay cycygcycg	i daccaaaaa	l Ctcccaatat	atataaaaa	CCCCCCtcct
- 175 guggat	9999 901900000	i dadcctaaac	: ccacctaccc	accesecace	000000000
1000 CCLGCC	acce crycegeee	i ditcccatta	i acctatecae	ctctacaaa	ccatagagta
TOTO grayer	yayy ayyaaycatt	i ctaaccatca	i actacacact	actaactacc	ctactacaca
1075 Cyccyy	yayc ygcgctggc	ccaaggeget	gecetacaca	adadatada	2020000+00
1733 tyacca	gici godaggagag	agcataacta	tgacctgccc	agagget agag	0000000000
ind acycla	cigi icaciqqqto	i ctcaddaadc	Caactacaaa	ctcccacccc	200202+000
1855 ctggca	tggg aaggaggct	ctactaaaat	caatacaact	ccaccactct	agcagatggg
1915 catgct	accg ggccggccg	: ccadctddda	ctatacactt	getagteet	ggaaactatt
1975 aggagg	ccca gctctcctgc	ttccccaaaca	acceptant	gerggeggat	gttccccccg
2035 atcctc	agag caccccate	z ctccggaaga	geeeeeteag	caatgttgtt	tgtgagtggg
2095 acagto	ggag caccccatco	ctyacyacaa	aggetgtget	cttggtgagg	aagtttcaga
2155 cetace	cggc cgaagactto	caggageegt	gccagtattc	ccaggagtcc	cagaagttct
ZIJJ CCLGCC	agil adcadiccco	r gagggagaca	getettteta	catagtgtgc	3+ a+ a a a+ a a
2210 Coagla	gryr Cygyagcaac	i ttcadcaaaa	ctcaaacctt	tcagggttgt	araat at taa
ZZ/J agccty	acce geologocaac	: atcacagtca	ctaccataac	Cadaaacccc	cactacatas
2000 gigica	uly gradyacccc	: cactcctdda	actcatcttt	ctacagacta	caatttaaaa
2373 CCagac	arry gychgaacgo	tcaaagacat	tcacaacato	dataatcaaa	gacgtggagg
2433 accacti	gryr carccacgac	gcctagaaca	acctaaaaca	cataataaaa	cttcctccc
2010 aggagg	ayıı cyyycaaggo	: dagtggagcg	agtggagccc	adaddccata	gggaggett
2575 ggacaga	aatc caggagtcct	ccagctgaga	acqaqqtqtc	caccccata	ggcacgcctt
2635 ctactas	ataa agacgatgat	aatattotot	terargette	taccccaty	caggeactta
2695 cagtgc	aga ttcttcttca	ataccetce	ccagagactc	tgcaaatgcg	acaagcctcc
2755 ccttca	maga coccectoda	gtaccactgo	CCacattcct	ggttgctgga	gggagcctgg
2815 gggctci	gaac gctcctctgc	artyccatty	ttctgaggtt	caagaagacg	tggaagctgc
2875 cagaga	gaa ggaaggcaag	acaagcatge	atccgccgta	ctctttgggg	cagctggtcc
2075 cggagag	gcc tcgacccacc	ccagtgcttg	ttcctctcat	ctccccaccg	gtgtccccca
2333 gcagcci	gyy gicigacaat	acctcgagcc	acaaccdacc	agataccaga	G2CCC2CGG
2000 gettette	ilya Calcagcaat	acagactact	tetteccear	atagetgget	agatagaaga
JUJJ agcagci	lyg acceptgea	tgacaaaaca	caaacdddct	Caccasass	tacttatasa
JIIJ LYCCAL	jula gullatutua	aaaatataca	geetttaact	tcacaaaaa	acattacae.
Jaris aggittet	acy ccayyyyaaa	atcagcctgc	tecagetatt	caactaatta	aggtttaaaa
3233 666666	. LLC Caaalqccca	acttaaaaaa	attadadtda	acttgggggg	ctatassass
JZJJ dactata	ica agactette	gacactcaca	cggacactca	aaaactaaac	aggttggtgg
gggcctt	yyı yıyyayaaqc	qqctqqcaqc	ccacccctca	acacctctcc	2C22Ctcc
Jara Coccag	yea yylyddatdd	atttccagcc	aaagcctcct	CCAGCCGCCA	taataataaa
Jaris Coacty	all quittatett	ccaactcaaa	ctcttaaaac	ccaaataaaa	++-~++
3535 ctgtttt	tct aggcctgggg	acggctttta	cttaaacaca	220000	ctagcaaatt
3595 ctctcct	ccc tttcttcct	acagttcaaa	assaget	aaygcccggg	ggaagaagct
3655 agtatgt	cad adoctadted	ttttanaaa	aacayccgag	ggrgagrggg	tgaataatac
3715 gcctaaa	cag ggcctggtcg	acticalcag	aattataatt	agttcctcat	tagcagtttt
3775 tagatta	tgt gaatgatgat	cctaggcatt	tgctgaatac	agaggcaact	gcattggctt
3935 2002+00	cag gacctcaggt	gagaagcaga	ggaaggagag	gagaggggca	cagggtctct
oooo accacco	ccc quadaququu	auctgagrag	addatcacad	cctctcaaaa	~~~~+~+~+
	cca coloccacaa	addadadcta	acaacaaaaa	agacttetac	catttataaa
arcadad	cyy ittiaciqia	UCLELGEER	TTGTCAGCTG	2200100012	20+20000
TOIS ataatat	Laa yyaayacaat	grgaaaagaa	aaatdadcct	aacssasta	aa+++
TO/O LOGICAL	taa aaaactyctg	actorities	cttgagaggg	taasstataa	22+2++
TIDD GLGCCAG	cac ayaaytaact	tacttaggtg	tagagggaage .	accataactt	tatttaaaa
aros addacca	ayı caayıqaaaa	aggaggaaga	gaaaaaatat :	tttcctacca	aaaataaaa
1233 CCCacyc	act todddaddtc	gaggcaggag	gatcacttga .	rtccaraart	++~~~+
4315 cctggac	aat gtgataaaac	cccatctcta	caaaaaaccat	geccayaayi	ccyayatcag
4375 agagtgt	gcc tgaagtccca	gatacttgg	agaataaay	adddttagc	caagtgtggt
4435 ggaggtc	aaa actacaataa	garacriggg	gggcigaggt (yggaggatct	cttgagcctg
4495 gcaagte	aag gctgcagtga aga ccctgtctc	geegagailg	caccactgca (ctccagcctg	gggtgacaga
youngey	-ga coolgicit				

- (2) INFORMATION FOR SEQ ID NO:2933:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1533 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

```
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2933:
   1 atacctaggc actaatttag ttccatatgt actatgtgta cctgaaaagt tgtgtggcaa
   61 tcaaattttc acaaatagaa tcctgtttta aatacactaa gaaagtacct actttatcct
  121 ttaaacaaga ggtcagcaga ctttttctac aaagggtcag atagtaaaga ttttacacct
  181 tttgtacaat acaatctcta tctcatctac ttagctctgc cattgttgca taaaagcagc
  241 tgtagatgat acacaaatgg gtgaggctgt attccaaatg aaacgttatt tgcaaaaaca
 301 ggtggtagat taaatttggt cccaaggctt acttgggaaa aaaaaagatc ttttgaaaaa
 361 gaaaaaataa atgaataatt tttttaaaaa attgttccct aggtcatagt ttgccagccc
  421 ctgccctaaa caaataattc ttgaatgcct actgtggtgt gtaagatatg agtaaatacc
 481 agggatacac agagaacaaa agagaaaaac tgctattctt gtgaaacttg gaagttggag
 541 gtaagctatt taaaataaac ccacaataaa gtacttcaca tagtgcagac tgtttcttta
 601 aatcaaaact cactccaaac aaccaattga ttcactttgt aagtttgaat ttttgtcttc
 661 agattettt aaagtgggee ettagteagg ageggtgget eatgeetgta gteetageae
 721 tttgggaggc tgaggcaggc agatcacttg aggtcaggag ttcgagacaa gcctggccaa
 781 catggcgaaa ccccgtctcc actgaaaaca caaaaattag gctggcatag tggcattgc
 841 ctgtagtcct agctactcag gaggctgagg caggagaatt gcttgaacct gggaggtgaa
 901 aattgcagtg agccgagatc atgctattgt actccagcct gggcaacaaa gcaagactcg
 961 totcaaaaaa ataaaaatta aaaaaataaa gtagootota gootaagata gottgagoot
1021 aggtgtgaat ctactgcctt actctgatgt aagcacagta agtgtggggg ctgcagggaa
1081 tatccaggag gaacaataat ttcagaggct ctgtctcttc atgtccttga cctctgctta
1141 cagcagcaat acttttactc agacttcctg tttctggaac ttgccttctt ttttgctgtg
1201 tttatacttc ccttgtctgt ggttagataa gtataaagcc ctagatctaa gcttctctgt
1321 ctactetete tetetatete teteagaatg acaattetag gtacaactti tggcatggtt
1381 ttttctttac ttcaagtcgt ttctggagaa agtggctatg ctcaaaatgg tgagtcattt
1441 ctaacttttc ttatggattt tggattatct gtagcatggt ttcaggttat tcagttccct
1501 aagagacctg agtcaggcac tgggtttgag tgc
(2) INFORMATION FOR SEQ ID NO:2934:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1658 base pairs
    (B) TYPE: nucleic acid
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- - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2934:

1 ctctctctct atctctctca gaatgacaat tctaggtaca acttttggca tggtttttc 61 tttacttcaa gtcgtttctg gagaaagtgg ctatgctcaa aatggagact tggaagatgc 121 agaactggat gactactcat teteatgeta tagecagttg gaagtgaatg gategeagea 181 ttcactgacc tgtgcttttg aggacccaga tgtcaacacc accaatctgg aatttgaaat 241 atgtggggcc ctcgtggagg taaagtgcct gaatttcagg aaactacaag agatatattt 301 catcgagaca aagaaattct tactgattgg aaagagcaat atatgtgtga aggttggaga 361 aaagagteta acctgcaaaa aaatagacet aaccactata gttaaacetg aggeteettt 421 tgacctgagt gtcatctatc gggaaggagc caatgacttt gtggtgacat ttaatacatc 481 acacttgcaa aagaagtatg taaaagtttt aatgcatgat gtagcttacc gccaggaaaa 541 ggatgaaaac aaatggacgc atgtgaattt atccagcaca aagctgacac tcctgcagag 601 aaageteeaa eeggeageaa tgtatgagat taaagttega teeateeetg ateactattt 661 taaaggette tggagtgaat ggagtecaag ttattaette agaaetecag agateaataa 721 tagetcaggg gagatggate ctatettact aaccateage attttgagtt ttttetetgt 781 cgctctgttg gtcatcttgg cctgtgtgtt atggaaaaaa aggattaagc ctatcgtatg 841 gcccagtete eccgateata agaagaetet ggaacatett tgtaagaaac caagaaaaaa 901 tttaaatgtg agtttcaatc ctgaaagttt cctggactgc cagattcata gggtggatga 961 cattcaagct agagatgaag tggaaggttt tctgcaagat acgtttcctc agcaactaga 1021 agaatetgag aageagagge ttggagggga tgtgeagage eccaactgee catetgagga 1081 tgtagtcgtc actccagaaa gctttggaag agattcatcc ctcacatgcc tggctgggaa 1141 tgtcagtgca tgtgacgccc ctattctctc ctcttccagg tccctagact gcagggagag 1201 tggcaagaat gggcctcatg tgtaccagga cctcctgctt agccttggga ctacaaacag 1261 cacgetgeee cetecatttt etetecaate tggaateetg acattgaace cagttgetca 1321 gggtcagccc attettactt ccctgggatc aaatcaagaa gaagcatatg tcaccatgtc 1381 cagettetac caaaaccagt gaagtgtaag aaacccagac tgaacttacc gtgagcgaca 1441 aagatgattt aaaagggaag totagagtto ctagtotooc toacagcaca gagaagacaa 1501 aattagcaaa accccactac acagtctgca agattctgaa acattgcttt gaccactctt 1561 cctgagttca gtggcactca acatgagtca agagcatcct gcttctacca tgtggatttg 1621 gtcacaaggt ttaaggtgac ccaatgattc agctattt

- (2) INFORMATION FOR SEQ ID NO:2935:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3191 base pairs



(B) TYPE: nucleic acid
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2935:

1 atacctaggc actaatttag ttccatatgt actatgtgta cctgaaaagt tgtgtggcaa 61 tcaaattttc acaaatagaa tootgtttta aatacactaa gaaagtacct actttatoot 121 ttaaacaaga ggtcagcaga ctttttctac aaagggtcag atagtaaaga ttttacacct 181 tttgtacaat acaatctcta tctcatctac ttagctctgc cattgttgca taaaagcagc 241 tgtagatgat acacaaatgg gtgaggctgt attccaaatg aaacgttatt tgcaaaaaca 301 ggtggtagat taaatttggt cccaaggctt acttgggaaa aaaaaagatc ttttgaaaaa 361 gaaaaaataa atgaataatt tttttaaaaa attgttccct aggtcatagt ttgccagccc 421 ctgccctaaa caaataattc ttgaatgcct actgtggtgt gtaagatatg agtaaatacc 481 agggatacac agagaacaaa agagaaaaac tgctattctt gtgaaacttg gaagttggag 541 gtaagctatt taaaataaac ccacaataaa gtacttcaca tagtgcagac tgtttcttta 601 aatcaaaact cactccaaac aaccaattga ttcactttgt aagtttgaat ttttgtcttc 661 agattetttt aaagtgggee ettagteagg ageggtgget eatgeetgta gteetageae 721 tttgggaggc tgaggcaggc agatcacttg aggtcaggag ttcgagacaa gcctggccaa 781 catggcgaaa ccccgtctcc actgaaaaca caaaaattag gctggcatag tggcatttgc 841 ctgtagtcct agctactcag gaggctgagg caggagaatt gcttgaacct gggaggtgaa 901 aattgcagtg agccgagatc atgctattgt actccagcct gggcaacaaa gcaagactcg 961 tctcaaaaaa ataaaaatta aaaaaataaa gtagcctcta gcctaagata gcttgagcct 1021 aggtgtgaat ctactgcctt actctgatgt aagcacagta agtgtggggg ctgcagggaa 1081 tatccaggag gaacaataat ttcagaggct ctgtctcttc atgtccttga cctctgctta 1141 cagcagcaat actittactc agacticctg titctggaac tigccitcit tittgcigtg 1201 tttatacttc ccttgtctgt ggttagataa gtataaagcc ctagatctaa gcttctctgt 1321 ctactctctc tctctatctc tctcagaatg acaattctag gtacaacttt tggcatggtt 1381 ttttctttac ttcaagtcgt ttctggagaa agtggctatg ctcaaaatgg tgagtcattt 1441 ctaacttttc ttatggattt tggattatct gtagcatggt ttcaggttat tcagttccct 1501 aagagacctg agtcaggcac tgggtttgag tgc 1534 ctctctctct atctctctca gaatgacaat tctaggtaca acttttggca tggtttttc 1594 tttacttcaa gtcgtttctg gagaaagtgg ctatgctcaa aatggagact tggaagatgc 1654 agaactggat gactactcat tctcatgcta tagccagttg gaagtgaatg gatcgcagca 1714 ttcactgacc tgtgcttttg aggacccaga tgtcaacacc accaatctgg aatttgaaat 1774 atgtggggcc ctcgtggagg taaagtgcct gaatttcagg aaactacaag agatatattt 1834 catcgagaca aagaaattct tactgattgg aaagagcaat atatgtgtga aggttggaga 1894 aaagagteta acctgcaaaa aaatagacet aaccactata gttaaacetg aggeteettt 1954 tgacctgagt gtcatctatc gggaaggagc caatgacttt gtggtgacat ttaatacatc 2014 acacttgcaa aagaagtatg taaaagtttt aatgcatgat gtagcttacc gccaggaaaa 2074 ggatgaaaac aaatggacgc atgtgaattt atccagcaca aagctgacac tcctgcagag 2134 aaagctccaa ccggcagcaa tgtatgagat taaagttcga tccatccctg atcactattt 2194 taaaggette tggagtgaat ggagtecaag ttattaette agaactecag agateaataa 2254 tagctcaggg gagatggatc ctatcttact aaccatcagc attttgagtt ttttctctgt 2314 cgctctgttg gtcatcttgg cctgtgtgtt atggaaaaaa aggattaagc ctatcgtatg 2374 gcccagtctc cccgatcata agaagactct ggaacatctt tgtaagaaac caagaaaaaa 2434 tttaaatgtg agtttcaatc ctgaaagttt cctggactgc cagattcata gggtggatga 2494 cattcaagct agagatgaag tggaaggttt tctgcaagat acgtttcctc agcaactaga 2554 agaatctgag aagcagaggc ttggagggga tgtgcagagc cccaactgcc catctgagga 2614 tgtagtcgtc actccagaaa gctttggaag agattcatcc ctcacatgcc tggctgggaa 2674 tgtcagtgca tgtgacgccc ctattctctc ctcttccagg tccctagact gcagggagag 2734 tggcaagaat gggcctcatg tgtaccagga cctcctgctt agccttggga ctacaaacag 2794 cacgctgccc cctccatttt ctctccaatc tggaatcctg acattgaacc cagttgctca 2854 gggtcagccc attettaett ecctgggate aaatcaagaa gaagcatatg teaccatgte 2914 cagcttctac caaaaccagt gaagtgtaag aaacccagac tgaacttacc gtgagcgaca 2974 aagatgattt aaaagggaag totagagtto otagtotooc toacagcaca gagaagacaa 3034 aattagcaaa accccactac acagtctgca agattctgaa acattgcttt gaccactctt 3094 cctgagttca gtggcactca acatgagtca agagcatcct gcttctacca tgtggatttg 3154 gtcacaaggt ttaaggtgac ccaatgattc agctattt

(2) INFORMATION FOR SEQ ID NO:2936:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1846 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2936:
- 1 ctcagecteg ctatggetee cageageece eggeeegege tgeeegeact cetggteetg

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61 ctcggggctc tgttcccagg acctggcaat gcccagacat ctgtgtcccc ctcaaaagtc
 121 atcctgccc ggggaggctc cgtgctggtg acatgcagca cctcctgtga ccagcccaag
 181 ttgttgggca tagagacccc gttgcctaaa aaggagttgc tcctgcctgg gaacaaccgg
 241 aaggtgtatg aactgagcaa tgtgcaagaa gatagccaac caatgtgcta ttcaaactgc
 301 cctgatgggc agtcaacagc taaaaccttc ctcaccgtgt actggactcc agaacgggtg
 361 qaactggcac ccctccctc ttggcagcca gtgggcaaga accttaccct acgctgccag
 421 gtggagggtg gggcaccccg ggccaacctc accgtggtgc tgctccgtgg ggagaaggag
 481 ctgaaacggg agccagctgt gggggagccc gctgaggtca cgaccacggt gctggtgagg
 541 agagatcacc atggagccaa tttctcgtgc cgcactgaac tggacctgcg gccccaaggg
 601 ctggagctgt ttgagaacac ctcggccccc taccagctcc agacctttgt cctgccagcg
 661 actececeae aacttgteag eeecegggte etagaggtgg acaegeaggg gaeegtggte
 721 tgttccctgg acgggctgtt cccagtctcg gaggcccagg tccacctggc actgggggac
 781 cagaggttga accccacagt cacctatggc aacgactcct tctcggccaa ggcctcagtc
 841 agtgtgaccg cagaggacga gggcacccag cggctgacgt gtgcagtaat actggggaac
 901 cagagocagg agacactgca gacagtgacc atotacagot ttooggogoc caacgtgatt
 961 ctgacgaagc cagaggtctc agaagggacc gaggtgacag tgaagtgtga ggcccaccct
1021 agagecaagg tgaegetgaa tggggtteca geceagecae tgggeeegag ggeeeagete
1081 ctgctgaagg ccaccccaga ggacaacggg cgcagcttct cctgctctgc aaccctggag
1141 gtggccggcc agcttataca caagaaccag acccgggagc ttcgtgtcct gtatggcccc
1201 cgactggacq agagggattg tccgggaaac tggacgtggc cagaaaattc ccagcagact
1261 ccaatgtgcc aggcttgggg gaacccattg cccgagctca agtgtctaaa ggatggcact
1321 ttcccactgc ccatcgggga atcagtgact gtcactcgag atcttgaggg cacctacctc
1381 tgtcgggcca ggagcactca aggggaggtc acccgcgagg tgaccgtgaa tgtgctctcc
1441 ccccggtatg agattgtcat catcactgtg gtagcagccg cagtcataat gggcactgca
1501 ggcctcagca cgtacctcta taaccgccag cggaagatca agaaatacag actacaacag
1561 gcccaaaaag ggaccccat gaaaccgaac acacaagcca cgcctccctg aacctatccc
1621 gggacagggc ctcttcctcg gccttcccat attggtggca gtggtgccac actgaacaga
1681 gtggaagaca tatgccatgc agctacacct accggccctg ggacgccgga ggacagggca
1741 ttgtcctcag tcagatacaa cagcatttgg ggccatggta cctgcacacc taaaacacta
1801 ggccacgcat ctgatctgta gtcacatgac taagccaaga ggaagg
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(2) INFORMATION FOR SEQ ID NO: 2937:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1041 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2937:

1 ctaaagatet ceeteeagge ageeettgge tggteeetge gageeegtgg agaetgeeag 61 agatgtcctc tttcggttac aggaccctga ctgtggccct cttcaccctg atctgctgtc 121 caggatcgga tgagaaggta ttcgaggtac acgtgaggcc aaagaagctg gcggttgagc 181 ccaaagggtc cctcgaggtc aactgcagca ccacctgtaa ccagcctgaa gtgggtggtc 241 tggagacete tetaaataag attetgetgg acgaacagge teagtggaaa cattaettgg 301 teteaaacat eteccatgae aeggteetee aatgeeactt eacetgetee gggaageagg 361 agtcaatqaa ttccaacqtc agcqtqtacc agcctccaag qcaqqtcatc ctgacactqc 421 aacccacttt ggtggctgtg ggcaagtcct tcaccattga gtgcagggtg cccaccgtgg 481 agoccotgga cagootcaco otottootgt toogtggcaa tgagactotg cactatgaga 541 ccttcgggaa ggcagccct gctccgcagg aggccacagc cacattcaac agcacggctg 601 acagagagga tggccaccgc aacttctcct gcctggctgt gctggacttg atgtctcgcg 661 gtggcaacat ctttcacaaa cactcagccc cgaagatgtt ggagatctat gagcctgtgt 721 cggacagcca gatggtcatc atagtcacgg tggtgtcggt gttgctgtcc ctgttcgtga 781 catctgtcct gctctgcttc atcttcggcc agcacttgcg ccagcagcgg atgggcacct 841 acggggtgcg agcggcttgg aggaggctgc cccaggcctt ccggccatag caaccatgag 901 tggcatggcc accaccacgg tggtcactgg aactcagtgt gactcctcag ggttgaggtc 961 cagccctggc tgaaggactg tgacaggcag cagagacttg ggacattgcc ttttctagcc 1021 cgaatacaaa cacctggact t

(2) INFORMATION FOR SEQ ID NO:2938:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2887 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2938:
- 1 ctcagcctcg ctatggctcc cagcagcccc cggcccgcgc tgcccgcact cctggtcctg
- 61 ctcggggctc tgttcccagg acctggcaat gcccagacat ctgtgtcccc ctcaaaagtc
- 121 atcctgccc ggggaggctc cgtgctggtg acatgcagca cctcctgtga ccagcccaag

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181 ttgttgggca tagagacccc gttgcctaaa aaggagttgc tcctgcctgg gaacaaccgg
 241 aaggtgtatg aactgagcaa tgtgcaagaa gatagccaac caatgtgcta ttcaaactgc
 301 cctgatgggc agtcaacagc taaaaccttc ctcaccgtgt actggactcc agaacgggtg
 361 gaactggcac ccctcccctc ttggcagcca gtgggcaaga accttaccct acgctgccag
 421 gtggagggtg gggcaccccg ggccaacctc accgtggtgc tgctccgtgg ggagaaggag
 481 ctgaaacggg agccagctgt gggggagccc gctgaggtca cgaccacggt gctggtgagg
 541 agagatcacc atggagccaa tttctcgtgc cgcactgaac tggacctgcg gccccaaggg
 601 ctggagctgt ttgagaacac ctcggccccc taccagctcc agacctttgt cctgccagcg
 661 actccccac aacttgtcag cccccgggtc ctagaggtgg acacgcaggg gaccgtggtc
 721 tgttccctgg acgggctgtt cccagtctcg gaggcccagg tccacctggc actgggggac
 781 cagaggttga accccacagt cacctatggc aacgactect teteggecaa ggeeteagte
 841 agtgtgaccg cagaggacga gggcacccag cggctgacgt gtgcagtaat actggggaac
 901 cagagecagg agacactgea gacagtgace atetacaget tteeggegee caacgtgatt
 961 ctgacgaagc cagaggtctc agaagggacc gaggtgacag tgaagtgtga ggcccaccct
1021 agagccaagg tgacgctgaa tggggttcca gcccagccac tgggcccgag ggcccagctc
1081 ctgctgaagg ccaccccaga ggacaacggg cgcagcttct cctgctctgc aaccctggag
1141 gtggccggcc agcttataca caagaaccag acccgggagc ttcgtgtcct gtatggcccc
1201 cgactggacg agagggattg tccgggaaac tggacgtggc cagaaaattc ccagcagact
1261 ccaatgtgcc aggcttgggg gaacccattg cccgagctca agtgtctaaa ggatggcact
1321 ttcccactgc ccatcgggga atcagtgact gtcactcgag atcttgaggg cacctacctc
1381 tgtcgggcca ggagcactca aggggaggtc acccgcgagg tgaccgtgaa tgtgctctcc
1441 ccccggtatg agattgtcat catcactgtg gtagcagccg cagtcataat gggcactgca
1501 ggcctcagca cgtacctcta taaccgccag cggaagatca agaaatacag actacaacag
1561 gcccaaaaag ggacccccat gaaaccgaac acacaagcca cgcctccctg aacctatccc
1621 gggacagggc ctcttcctcg gccttcccat attggtggca gtggtgccac actgaacaga
1681 gtggaagaca tatgccatgc agctacacct accggccctg ggacgccgga ggacagggca
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- (2) INFORMATION FOR SEQ ID NO:2939:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1739 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2939:

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121 ccctgtgctc tctgctggag ggtccctgtt tgtgaactgc agtactgatt gtcccagctt
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     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2940:
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  301 acctetegeg gegggagece acceggeagg tgttegeegt geagegeate ttegaaaaeg
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(2) INFORMATION FOR SEQ ID NO:2941:
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     (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2941:
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1081 cateetgaat titgtetgga ggeeceaece gagecaatee agegtettgt ecceettete
1141 ccccttttca tcaacgcctg tgccagggga gaggaagtgg agggcgctgg ccggccgtgg
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1321	Ltcacctatat	cctaccaaca	ttactactaa	qqqqtqaqtt	tttgagtcca	acctoccact	
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(2) INFORMATION FOR SEQ ID NO:2942:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 6212 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2942:
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2781 agctgcgcgg aggccacttc tgcggcgcca ccctgattgc gcccaacttc gtcatgtcgg
2841 ccgcgcactg cgtggcgaat gtgtgagtag ccgggagtgt gcgcgcccgg ctcggacccc
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2961 gtccgtccag ggcccgcggg gcccctcgag caccttcgcc ctcaggcccg tcgccggatg
3021 gggacgacaa ggcgcggctg agccccgacc cccggggccg cccctgagcc ccgcctctcc
3081 ctcttttggc agaaacgtcc gcgcggtgcg ggtggtcctg ggagcccata acctctcgcg
3141 gcgggagccc acccggcagg tgttcgccgt gcagcgcatc ttcgaaaacg gctacgaccc
3201 cgtaaacttg ctcaacgaca tcgtgattct ccaggtgccg ccgggcgggc gggggcgagg
3261 ggcggaggcc agaggcctgg ggagggtgga ggcctgggga gggtggaggc tgcgacggag
3321 gggcgcgtcg gggccgctcg tggggacctg gggtggcatc gtgggctggg tggtcccctc
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3741 cttactgaga agggaggccc cgatctgctg tcaatcaaca aacttactga gaagggaggc
3801 ccccgatctg ttgtcaatca acaaacttac tgagaaggga ggccccgatc tgctgtcaat
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4041 cactttggga ggctgaggcg ggtggatcac gaggtcaggt gttcgagacc agcctgagca
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4401 gctcaagcca ccctctcagc ttggaatggg gggtagctgg aaccacaggt gccaccacgt
4581 aatattata taattataaa tatcatttat aattataata tttattattt tataaaataa
4701 atatatattt tttgagacaa gtctcgctct gtcgcccagg ctggagcgca gtgcacaatc
4761 tcactcactg cacctccgcc tcccaggttc aagcgattct cctgcctcag cctcccaggt
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5301 agaaccacag tggaacctga gatggggaaa ctgaggcccg gagaggggag ggtcatcatc
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5481 gggtgcagtg cctggccatg ggctggggcc ttctgggcag gaaccgtggg atcgccagcg
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5661 tececaceeg eteceageee ggtaetgeag caacaggeae egtggetaga eeetaggatg
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5841 cacggaattg cctccttcgt ccggggaggc tgcgcctcag ggctctaccc cgatgccttt
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- (2) INFORMATION FOR SEQ ID NO:2943:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1755 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2943:
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  901 tactggtgta ctgtttccca ttgctcatca tgggtattac atacaccatt gttggaatta
  961 ctctctgggg aggagaaatc ccaggagata cctgtgacaa gtatcatgag cagctaaagg
 1021 ccaaaagaaa ggttgtcaaa atgatgatta ttgttgtcat gacatttgct atctgctggc
 1081 tgccctatca tatttacttc attctcactg caatctatca acaactaaat agatggaaat
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 1261 ggtgtccttt catcaaagtt tccagctatg atgagctaga gctcaagacc accaggtttc
 1321 atccaaaccg gcaaagcagt atgtacaccg tgaccagaat ggagtccatg acagtcgtgt
 1381 ttgaccccaa cgatgcagac accaccaggt ccagtcggaa gaaaagagca acgccaagag
 1441 acccaagttt caatggctgc tctcgcagga attccaaatc tgcctccgcc acttcaagtt
 1501 tcataagete accetatace tetgtggatg aatattetta attecattte etgaggtaaa
 1561 agattagtgt gagaccatca tggtgccagt ctaggacccc attctcctat ttatcagtcc
 1621 tgtcctatat accctctaga aacagaaagc aatttttagg cagctatggt caaattgaga
 1681 aaggtagtgt ataaatgtga caaagacact aataacatgt tagcctccac ccaaaataaa
 1741 atgggcttta aattt
(2) INFORMATION FOR SEQ ID NO: 2944:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 600 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2944:
    1 ctgcagaccg gtggcgatgg ccatcctccc agcagcagaa acctggatag acgggggtgg
   61 aggcgtgggt gcagacgccg tgaacctgac cgcctcgcta gctgccgggg cggccacggg
  121 ggcagttgag actgggtggc tgcaactgct ggaccaagct ggcaacctct cctccccc
  181 tteegegetg ggaetgeetg tgegtteece egegeeetee eagecetggg ceaaceteae
  241 caaccagttc gtgcagccgt cctggcgtat cgcgctctgg tccctggcgt atggtgtggt
  301 ggtggcagtg gcagttttgg gaaatctcat cgtcatctgg atcatcctgg cccacaagcg
  361 catgaggact gtcaccaact actteettgt gaacetgget tteteegacg cetecatgge
  421 cgccttcaac acgttggtca atttcatcta cgcgcttcat agcgagtggt actttggcgc
  481 caactactgc cgcttccaga acttctttcc tatcacagct gtgttcgcca gcatctactc
  541 catgacggcc attgcggtgg acaggtgagg agaggacaga cagagaggaa agagggagaa
(2) INFORMATION FOR SEQ ID NO:2945:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 227 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2945:
   1 ggtatatggc tattattgat cccttgaaac ccagactgtc tgctacagca accaagattg
   61 tcattggaag tatttggatt ctagcatttc tacttgcctt ccctcagtgt ctttattcca
 121 aaaccaaagt catgccaggc cgtactctct gctttgtgca atggccagaa ggtcccaaac
 181 aacatttcac gtaagttaat tototattat ggttttcaat toagttt
(2) INFORMATION FOR SEQ ID NO: 2946:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 201 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2946:
   1 catgtgtttt tcttattttt catagttacc atattatcgt cattatactg gtgtactgtt
  61 teccattget cateatgggt attacataca ceattgttgg aattactete tggggaggag
 121 aaatcccagg agatacctgt gacaagtatc atgagcagct aaaggccaaa agaaaggtac
 181 tggtccatgt tgtttaccta g
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- (2) INFORMATION FOR SEO ID NO: 2947:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 255 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2947:

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   61 atctgctggc tgccctatca tatttacttc attctcactg caatctatca acaactaaat
  121 agatggaaat acatccagca ggtctacctg gctagctttt ggctggcaat gagctcaacc
  181 atgtacaatc ccatcatcta ctgctgtctg aataaaaggt aaaaacaaaa ctacgaaatg
 241 caagttgctt gtcac
(2) INFORMATION FOR SEQ ID NO:2948:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 449 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEO ID NO:2948:
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  61 catttcgctg gtgtcctttc atcaaagttt ccagctatga tgagctagag ctcaagacca
 121 ccaggtttca tccaaaccgg caaagcagta tgtacaccgt gaccagaatg gagtccatga
 181 cagtcgtgtt tgaccccaac gatgcagaca ccaccaggtc cagtcggaag aaaagagcaa
 241 cgccaagaga cccaagtttc aatggctgct ctcgcaggaa ttccaaatct gcctccgcca
 301 cttcaagttt cataagctca ccctatacct ctgtggatga atattcttaa ttccatttcc
 361 tgaggtaaaa gattagtgtg agaccatcat ggtgccagtc taggacccca ttctcctatt
 421 tatcagtcct gtcctatata ccctctaga
(2) INFORMATION FOR SEQ ID NO:2949:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 3487 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2949:
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  61 aggcgtgggt gcagacgccg tgaacctgac cgcctcgcta gctgccgggg cggccacggg
 121 ggcagttgag actgggtggc tgcaactgct ggaccaagct ggcaacctct cctccccc
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 241 caaccagttc gtgcagccgt cctggcgtat cgcgctctgg tccctggcgt atggtgggt
 301 ggtggcagtg gcagttttgg gaaatctcat cgtcatctgg atcatcctgg cccacaagcg
 361 catgaggact gtcaccaact actteettgt gaacetgget tteteegacg cetecatgge
 421 cgccttcaac acgttggtca atttcatcta cgcgcttcat agcgagtggt actttggcgc
 481 caactactgc cgcttccaga acttctttcc tatcacagct gtgttcgcca gcatctactc
 541 catgacggcc attgcggtgg acaggtgagg agaggacaga cagagaggaa agagggagaa
 601 ctattgcagt atctttcagc ttccagtctt atctgaagac cccggcacca aagtgaccag
 661 gaggcagaga agaacttcag aggagtctcg tcttgggctg cccgtgggtg agtgggaggg
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 841 ccacgggggc agttgagact gggtggctgc aactgctgga ccaagctggc aacctctcct
 901 ceteceette egegetggga etgeetgtgg etteceeege geeeteeeag eeetgggeea
 961 acctcaccaa ccagttcgtg cagccgtcct ggcgcatcgc gctctggtcc ctggcgtatg
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1861 ggtgtccttt catcaaagtt tccagctatg atgagctaga gctcaagacc accaggtttc
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1981 ttgaccccaa cgatgcagac accaccaggt ccagtcggaa gaaaagagca acgccaagag 2041 acccaagttt caatggctgc tctcgcagga attccaaatc tgcctccgcc acttcaagtt 2101 tcataagctc accctatacc tctgtggatg aatattctta attccatttc ctgaggtaaa 2161 agattagtgt gagaccatca tggtgccagt ctaggacccc attctcctat ttatcagtcc

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2221 tgtcctatat accctctaga aacagaaagc aatttttagg cagctatggt caaattgaga
2281 aaggtagtgt ataaatgtga caaagacact aataacatgt tagcctccac ccaaaataaa
2341 atgggcttta aattt
2356 ggtatatggc tattattgat cccttgaaac ccagactgtc tgctacagca accaagattg
2416 tcattggaag tatttggatt ctagcatttc tacttgcctt ccctcagtgt ctttattcca
2476 aaaccaaagt catgccaggc cgtactctct gctttgtgca atggccagaa ggtcccaaac
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2583 catgtgtttt tcttattttt catagttacc atattatcgt cattatactg gtgtactgtt
2643 teccattget cateatgggt attacataca ceattgttgg aattactete tggggaggag
2703 aaatcccagg agatacctgt gacaagtatc atgagcagct aaaggccaaa agaaaggtac
2763 tggtccatgt tgtttaccta g
2784 caaatgactt tttctttata ggttgtcaaa atgatgatta ttgttgtcat gacatttgct
2844 atctgctggc tgccctatca tatttacttc attctcactg caatctatca acaactaaat
2904 agatggaaat acatccagca ggtctacctg gctagctttt ggctggcaat gagctcaacc
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3024 caagttgctt gtcac
3039 aaaataactt ttetttetgt ggeetgettt teeteagatt tegagetgge tteaagagag
3099 catttegetg gtgteettte atcaaagttt ccagetatga tgagetagag etcaagacca
3159 ccaggtttca tccaaaccgg caaagcagta tgtacaccgt gaccagaatg gagtccatga
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3279 cgccaagaga cccaagtttc aatggctgct ctcgcaggaa ttccaaatct gcctccgcca
3339 cttcaagttt cataagctca ccctatacct ctgtggatga atattcttaa ttccatttcc
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- (2) INFORMATION FOR SEQ ID NO:2950:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2206 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2950:
- 1 ctagtctttc agccttcagg ctgtttttgg cttgaagctc tcttggcctc ctagtttcta 61 cctaatcatg tccctggtgg aggccatcag cctctggaat gaaggggtgc tggcagcgga 121 caagaaggac tggaagggag ccctggatgc cttcagtgcc gtccaggacc cccactcccg 181 gatttgcttc aacattggct gcatgtacac tatcctgaag aacatgactg aagcagagaa 241 ggcctttacc agaagcatta accgagacaa gcacttggca gtggcttact tccaacgagg 301 gatgctctac taccagacag agaaatatga tttggctatc aaagacctta aagaagcctt 361 gattcagett egagggaace agetgataga etataagate etggggetee agttcaaget 421 gtttgcctgt gaggtgttat ataacattgc tttcatgtat gccaagaagg aggaatggaa 481 aaaagctgaa gaacagttag cattggccac gagcatgaag tctgagccca gacattccaa 541 aatcgacaag gcgatggagt gtgtctggaa gcagaagcta tatgagccag tggtgatccc 601 tgtgggcaag ctgtttcgac caaatgagag acaagtggct cagctggcca agaaggatta 661 cctaggcaag gcgacggtcg tggcatctgt ggtggatcaa gacagtttct ctgggtttgc 721 ccctctgcaa ccacaggcag ctgagcctcc acccagaccg aaaaccccag agatcttcag 781 ggctctggaa ggggaggctc accgtgtgct atttgggttt gtgcctgaga caaaagaaga 841 gctccaggtc atgccaggga acattgtctt tgtcttgaag aagggcaatg ataactgggc 901 cacggtcatg ttcaacgggc agaaggggct tgttccctgc aactaccttg aaccagttga 961 gttgcggatc caccctcagc agcagcccca ggaggaaagc tctccgcagt ccgacatccc 1021 agctcctcct agttccaaag cccctggaaa accccagctg tcaccaggcc agaaacaaaa 1081 agaagageet aaggaagtga ageteagtgt teccatgeee tacacactea aggtgeacta 1141 caagtacacg gtagtcatga agactcagcc cgggctcccc tacagccagg tccgggacat 1201 ggtgtctaag aaactggagc tccggctgga acacactaag ctgagctatc ggcctcggga 1261 cagcaatgag ctggtgcccc tttcagaaga cagcatgaag gatgcctggg gccaggtgaa 1321 aaactactgc ctgactctgt ggtgtgagaa cacagtgggt gaccaaggct ttccagatga 1381 acccaaggaa agtgaaaaag ctgatgctaa taaccagaca acagaacctc agcttaagaa 1441 aggcagccaa gtggaggcac tcttcagtta tgaggctacc caaccagagg acctggagtt 1501 tcaggaaggg gatataatcc tggtgttatc aaaggtgaat gaagaatggc tggaagggga 1561 gtgcaaaggg aaggtgggca ttttccccaa agtttttgtt gaagactgcg caactacaga 1621 tttggaaagc actcggagag aagtctagga tgtttcacaa actacaaagc tgaagaaaat 1681 gaagecetat tacttgtttg taagatttag caccettetg etgtataetg tactgagaca 1741 ttacagtttg gaagtgttaa ctatttattc cctgttaaaa tttaacctac tagacaatga 1801 tgtgagtacc caggatgatt tcctggggca cagtgggtga ggagatgggg acaggtgaat 1861 ggaggagtta ggggagagga aaagtggatg gaagtgtctg gaaagggcac gagagagtct

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1921 tocaggtact gatcetgttt cttgctctga gtgctagcta gccagctgtg ttcacactgt
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 2101 tattcctgtt tctgaaccat tactgtaatt ggctcttaag gcttgaagta accttatagg
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(2) INFORMATION FOR SEQ ID NO:2951:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 2206 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2951:
    1 ctagtctttc agccttcagg ctgtttttgg cttgaagctc tcttggcctc ctagtttcta
   61 cctaatcatg tccctggtgg aggccatcag cctctggaat gaaggggtgc tggcagcgga
  121 caagaaggac tggaagggag coctggatgo ottcagtgoo gtocaggaco cocactooog
  181 gatttgcttc aacattggct gcatgtacac tatcctgaag aacatgactg aagcagagaa
  241 ggcctttacc agaagcatta accgagacaa gcacttggca gtggcttact tccaacgagg
  301 gatgetetae taccagacag agaaatatga tttggetate aaagacetta aagaageett
  361 gattcagett cgagggaacc agetgataga ctataagate etggggetee agttcaaget
  421 gtttgcctgt gaggtgttat ataacattgc tttcatgtat gccaagaagg aggaatggaa
  481 aaaagctgaa gaacagttag cattggccac gagcatgaag tctgagccca gacattccaa
  541 aatcgacaag gcgatggagt gtgtctggaa gcagaagcta tatgagccag tggtgatccc
  601 tgtgggcaag ctgtttcgac caaatgagag acaagtggct cagctggcca agaaggatta
  661 cctaggcaag gcgacggtcg tggcatctgt ggtggatcaa gacagtttct ctgggtttgc
  721 ccctctgcaa ccacaggcag ctgagcctcc acccagaccg aaaaccccag agatcttcag
  781 ggctctggaa ggggaggctc accgtgtgct atttgggttt gtgcctgaga caaaagaaga
  841 gctccaggtc atgccaggga acattgtctt tgtcttgaag aagggcaatg ataactgggc
  901 cacggtcatg ttcaacgggc agaaggggct tgttccctgc aactaccttg aaccagttga
  961 gttgcggatc caccctcagc agcagcccca ggaggaaagc tctccgcagt ccgacatccc
 1021 agetectect agttecaaag eeeetggaaa acceeagetg teaceaggee agaaacaaaa
 1081 agaagagcct aaggaagtga agctcagtgt tcccatgccc tacacactca aggtgcacta
 1141 caagtacacg gtagtcatga agactcagcc cgggctcccc tacagccagg tccgggacat
 1201 ggtgtctaag aaactggagc teeggetgga acacactaag etgagetate ggeeteggga
 1261 cagcaatgag ctggtgcccc tttcagaaga cagcatgaag gatgcctggg gccaggtgaa
 1321 aaactactgc ctgactctgt ggtgtgagaa cacagtgggt gaccaaggct ttccagatga
 1381 acccaaggaa agtgaaaaag ctgatgctaa taaccagaca acagaacctc agcttaagaa
1441 aggcagccaa gtggaggcac tcttcagtta tgaggctacc caaccagagg acctggagtt
1501 tcaggaaggg gatataatcc tggtgttatc aaaggtgaat gaagaatggc tggaagggga
1561 gtgcaaaggg aaggtgggca ttttccccaa agtttttgtt gaagactgcg caactacaga
1621 tttggaaagc actcggagag aagtctagga tgtttcacaa actacaaagc tgaagaaaat
1681 gaagecetat tacttgtttg taagatttag caccettetg etgtataetg tactgagaca
1741 ttacagtttg gaagtgttaa ctatttattc cctgttaaaa tttaacctac tagacaatga
1801 tgtgagtacc caggatgatt tcctggggca cagtgggtga ggagatgggg acaggtgaat
1861 ggaggagtta ggggagagga aaagtggatg gaagtgtctg gaaagggcac gagagagtct
1921 tocaggtact gatectgttt ettgetetga gtgetageta gecagetgtg tteacactgt
1981 aaacattcat caagctgtac atttggtgca cttttctgtg tcataccaca ataaaaaaaa
2041 acctatcatc atcttacaaa aacaagacac ccaagtccag gcccaaggag taagtacaaa
2101 tattcctgtt tctgaaccat tactgtaatt ggctcttaag gcttgaagta accttatagg
2161 ttactcataa ggcatataca aataaacttg tttgttttct tttttc
(2) INFORMATION FOR SEQ ID NO:2952:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 273 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2952:
   1 gcagagctgg gcaccacagg gagctaggct ctgtgagccg tggctcatct cacacctcct
  61 cactgeettg cateatggee atgtetggae eettetetee teaggeettt accagaagea
 121 ttaaccgaga caagcacttg gcagtggctt acttccaacg agggatgctc tactaccaga
 181 cagagaagta agtggttcaa tgttgcacca actggaggat ttcagagaga aacccaaggg
 241 gtctcagtgt tgcgggcttg gtgtttgagc agt
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(2) INFORMATION FOR SEQ ID NO:2953:

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 420 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2953:
    1 ggtcagaagg aactgaaagg cttcttgtcc cagtgagata gctggggaag ggagaagcag
   61 actcacattt tatgctgcat ttatttctcc atccactaga ctgctgattt tctccctctg
  121 teetggagat atgatttgge tateaaagae ettaaagaag eettgattea gettegaggg
  181 aaccagctga tagactataa gatcctgggg ctccagttca agctgtttgc ctgtgaggta
  241 aggagaacag ggcctggctg ggcaggaggg gatcatggct ggatggatgg ctgacagtca
  301 gatgcacagt gatctgttga cacctccagg agcttggaaa agccatttct cctctgcctt
  361 gagactcaga ttttccttga agaaaagact gagatggatt atttcaggct catcaaggca
(2) INFORMATION FOR SEQ ID NO:2954:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 780 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2954:
   1 ttccctggca ccttgatttg gagtagtctc aagttttatg tttgcggtct gtacttttct
   61 aggtgttata taacattgct ttcatgtatg ccaagaagga ggaatggaaa aaagctgaag
  121 aacagttagc attggccacg agcatgaagt ctgagcccag acattccaaa atcgacaagg
  181 cgatggagtg tgtctgggta agcgtattgg tgatgcaggt gttgagagga tgtcactgga
  241 ttctcatttg tctcagagga catgccattg agaagccata aaagtggtgc ttttactttc
  301 tgtgagtctg ggtaacactg atcttagggt atagttccac ttaagatctt gaatctgtgc
  361 tgagaagctg aggcctagag tatgggatgg cagagcctgg catcacacca cccttggagt
  421 ggggctcctt ggcaatgcag gagaacagga tattggatgc tggagcagtg ctgcacagac
  481 tctaagcact gagagggcag agtccatgtc tgcttgatca ccactgagtc ctcacagcct
  541 ggcacagtgc taggccacat aacagetete agcaaaaatg ttttgttttg ttttgagatg
  601 gagteteget etgttgeeca geetggagtg eagtggtgtg ateteagete aetgeageet
  661 ctgcctcctg ggttcaagca attctgctgc ctcagccgcc caagtagctg ggattacagg
 721 tgcatgccac catgcctggc taatttttgt atttttaata gagacggggt tttgccatgt
(2) INFORMATION FOR SEQ ID NO:2955:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 278 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2955:
   1 gaattettgc atetattcac tgagggaggc aggacaagca tcgtcacccc cattttcaca
  61 taagggaatg ctacgttttc tgtgttacag aagcagaagc tatatgagcc agtggtgatc
 121 cctgtgggca agctgtttcg accaaatgag agacaagtgg ctcagctggc caagaaggat
 181 tacctaggca aggcgacggt aggtgggatt gctcagcttc ccctgagtct tcctgtggcc
 241 cgggcatgtg gagcaaggtg ggagggactc ttgagaag
(2) INFORMATION FOR SEQ ID NO:2956:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 705 base pairs
     (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2956:
   1 gcaggagaat cacttgaacc tggaaggcag aggttgcagt gagctgagtc actccactgc
  61 actccagtct gggtaacaga gcgtgctccg tctcaaaaaa aaaaaaaaa aaaaagataa
 121 tttgatgtta tacaaattgc acctcaatta aaaacatttc ttttttaaga gagaagaaag
 181 caageetgtg ttageagggg tggggtgaat getegtttet teagttgetg aaateetaat
 241 ccagaggete aggaatetaa teettagtta etgteeaegt etgaaaceag geteaegtaa
 301 gaacaggtet agggeatgag caaagaggga gacceagaag aatggaaaca gtgetggeag
 361 agceteaeae eeteetgtee ttgattttag gtegtggeat etgtggtgga teaagaeagt
 421 ttctctgggt ttgcccctct gcaaccacag gtaaggcagt cctgaccttc tccatggacc
 481 taggtctcga gagctttctg tgaagcattc aattcgagag actatgtgtg ctgagttgcc
 541 tgattgtaag ggctccttca agtggccctc agtgcagctg aggattctgc ctgccctctc
 601 tcagtcctgg tttccatggc tggtgaggaa ataaggcagt gtcaggcttc accccaagtc
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661 ctctgaagct aactctcctg cttccccaca aatgccggtc ttcac

- (2) INFORMATION FOR SEQ ID NO:2957:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 709 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2957:
 - 1 actgaattgc tgtgctagtg aaacctgtac ctgggagctg gtgggaggtg ttatttccca
 - 61 gtgtttagtc agggtgactg tgccctcttc ctagacagtg ttctcatcag tcagaaatgc
 - 121 gttatttgat tttctggtct ggaagaatgc tcaaattacc attagccgtt tgttgtctct
 - 181 cccctgcttt ccctcattgc cttttccgtt ttcacttctc ctgaatgttc aataggcagc 241 tgagcctcca cccagaccga aaaccccaga gatcttcagg taagttagat tcaaatccat
 - 301 aaatagaata tcaagcgcca agcctgagct gatggcaaga aagggaggga agaagatgaa
 - 361 ggtggggtca gggtctaaat cttgttgaat tttctggaat gtcaggcttc ttctagaatg
 - 421 tcaggctaga aaggaatgcc tagaagaatg tcttctagaa tgtcaggcta gaaaggaatg
 - 481 atatatgggg atgggagtct tgactgtggt ggggctggcc atcagggctt ggctgcagct
 - 541 acgtggtcca ttggccctct gtccacgtgc acagccacca catgcagggg ttgtgctgag
 - 601 ggcagtgtgt cctgtggaac atagctacct gggaccagat gctgacctca ggttggagat
 - 661 cggtttcgca ctggctgcag tcctctgacg gggcaggcca gagctctct
- (2) INFORMATION FOR SEQ ID NO:2958:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 849 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2958:
 - 1 tgagcagtgt acaccagttt cttgctgaga cctcttggac ccaggcaggc tcagtgtcat
 - 61 ctcggcagtt gcagttagat gtggagttag agccaggctg agccaagtcc ctggctccaa
 - 121 gttcagtgta tttgcgccat ggcatcatgt gaggggatgg gggctggatc ttgtgtctat
 - 181 cctctgcagg gctctggaag gggaggctca ccgtgtgcta tttgggtttg tgcctgagac
 - 241 aaaagaagag ctccaggtca tgccagggaa cattgtcttt gtcttgaaga agggcaatga
 - 301 taactgggcc acggtcatgt tcaacgggca ggtatgcaga ggatcagggg ctggtgcgat
 - 361 gggcatggga tcctggcagc aaatgcagtc tctgtggagc agtatctgct gccttctttg 421 cagaccagcc aagttctttt gtctgttcgt catcccttcc ccaggactct gggctgttct
 - 481 gtggtgtggg tactgatgag cacatcttta tttttcctt tctgattctg tggtgctgca
 - 541 ctgcagaagg ggcttgttcc ctgcaactac cttgaaccag ttgagctgcg gatccaccct
 - 601 cagcagcagc cccaggtaat gtgatgccaa ggcctgaccc atttcctctc accetttagg
 - 661 atctctccct ggagggagaa aagcagtgta aaagaggtgt tgtcaggacc cctggagaaa
 - 721 gattcactag tcttgagccc gccttgagat ggcaccagct acccagagct gaacctggga
 - 781 atgaggggaa aaaagcccag atgtgctaag ttggaggcat ctgtaggtcc cattggccca
 - 841 cccacctct
- (2) INFORMATION FOR SEQ ID NO:2959:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2959:
 - 1 aatgtcacta ccattccaac ttttaggacg ttatctgcat gtggctcctt tacatggggt
 - 61 ctctgtaggg gtgtttcccc acatccaccc ctgcctggga actttgaatg aaggttctga
 - 121 ccatcgctcc ctgttgcctt caggaggaaa gctctccgca gtccgacatc ccagctcctc
 - 181 ctagttccaa agcccctgga agaccccagc tgtcaccagg tgagtggtcc tggagccaca
 - 241 gcctaggttt gggtgcagca gcatgccagg tgttcctgag ttcctctccc tgccttccag
 - 301 gaaattct
- (2) INFORMATION FOR SEQ ID NO:2960:
 - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 463 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEO ID NO:2960:
    1 gactgagttt gttcatgtgt tcatgacctt catgcttccc cagggcgaga tttccccaca
   61 gtttactaag gttaataatt gccccacaaa ttaaagggta agaggttggg ggccctattt
  121 gaagaggttt catctgtgtg tggcaggggc tggccaagga tgttcattca ccatcttctt
  181 ttgttttact ccctactttt tccattcagg ccagaaacaa aaagaagagc ctaaggtaac
  241 atttttccct catactgttt caagtggtag aagatgggat agcttgggct atcaaccaca
  301 gacatgtctg tctggattat aggaagagcc caaaggaggg tcgaaccagt tgctacctta
  361 cagagtecat gagetaggga cettettaat ageeteetee actateatge acaeaettee
  421 tactacccaa gctagtgggc cagatcttac tcagtaggaa ttc
(2) INFORMATION FOR SEQ ID NO:2961:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 784 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2961:
    1 gaatteetgt ccaagcaagg gttgggetaa aggacetetg aaggeetttt aggetaetgt
   61 gaaaccagtt acttactggc ctctcccctg ctgtattggg taccccctgt gccaaatcac
  121 gaaactgcgg tgatccagga tgttgagaga aagcctcaga cactcaggag ttccctttgt
  181 ttcctcccca ctcaggaagt gaagctcagt gttcccatgc cctacacact caaggtgcac
  241 tacaagtaca cggtagtcat gaagactcag cccgggctcc cctacagcca ggtccgggac
  301 atggtgtcta agaaactgga gctccggctg gaacacacta agctgaggtg agctccatgc
  361 aggcagctgt gaggggtaca gtgggaacct tgtgctggcc tggaggaggg aagaggagga
  421 tggtttttgt gatgatgttc tttgactgga ttcttactca ttatccccac ccagctatcg
  481 gcctcgggac agcaatgagc tggtgcccct ttcagaagac agcatqaagg atgcctgggg
  541 ccaggtgaaa aactactgcc tgactctgtg gtgtgagaac acagtggtga gtgcaatgag
  601 gggcatctaa agttacattt ccactgagcc acttcctcaa caatttgaaa tttatcaagc
  661 accttctgtg tactaggcac tatatgtggt gttggggata tggtgtgtaa taagtcacag
  721 ctctgcctcc cttttacctg catcctcacc ccatttgcag cagggagaga gtttcccaca
 781 agag
(2) INFORMATION FOR SEQ ID NO:2962:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 450 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2962:
   1 ttcataaaga gcatataagc tctacacaag gcactgatca caaactttat gagtttatat
  61 cccaggttct actttgacat ttcgctgttt cctttagtga tgttcagtgt tcacttggca
 121 ggaaattggg aaaattaaca ggccctttat tatttcaggg tgaccaaggc tttccagatg
 181 aacccaagga aagtgaaaaa gctgatgcta ataaccagac aacagaacct cagcttaaga
 241 aaggcagcca agtggaggca ctcttcagtt atgaggctac ccaaccagag gacctggagt
 301 ttcaggaagg ggatataatc ctggtgttat caaagggtaa gtgctactcc aagactatag
 361 aaacaaattt acatgttagc agaaacaagg tcaagggcag agagaagaaa tatcaataat
 421 ctacaaacaa aactttagcc agtgttttca
(2) INFORMATION FOR SEQ ID NO:2963:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1145 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2963:
   1 gtcaattctt gaccctcttc tctatctggt aactttttga aaaacataat ttatcctctc
  61 ttcattttgc tcattatcat gtttaagaca gatcaataag atggttaaac cctgtgttca
 121 ctctcaaacc actttgcaat actgtctttt ccctgttgat cacaattagg ggtggggaag
 181 ggtgaccgat aacaaattct gtgtggaata gccagacagg gtaatcttcc tacagtggtt
 241 ttagaaatcc atgtgtactt ttccttttat cagtgaatga agaatggctg gaaggggagt
 301 gcaaagggaa ggtgggcatt ttccccaaag tttttgttga agactgcgca actacagatt
 361 tggaaagcac tcggagagaa gtctaggatg tttcacaaac tacaaagctg aagaaaatga
 421 agccctatta cttgtttgta agatttagca cccttctgct gtatactgta ctgagacatt
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481 acagtttgga agtgttaact atttattccc tgttaaaatt taacctacta gacaatgatg
  541 tgagtaccca ggatgatttc ctggggcaca gtgggtgagg agatggggac aggtgaatgg
  601 aggagttagg ggagaggaaa agtggatgga agtgtctgga aagggcacga gagagtcttc
  661 caggtactga tcctgtttct tgctctgagt gctagctagc cagctgtgtt cacactgtaa
  781 ctatcatctt acaaaaacaa gacacccaag tccaggccca aggagtaagt acaaatattc
  841 ctgtttctga accattactg taattggctc ttaaggcttg aagtaacctt ataggttact
  901 cataaggcat atacaaataa acttgtttgt tttctttttt cattatgtct tgttgcttaa
  961 acagaaccta gactgagtta ggttctcatg gactacaaca ctcaattcca cagagaatta
 1021 atagaattac atacetttgt acatteteag agaggaacat gtgttaagaa eteaataetg
1081 aatatatat aatcgccaac atttaagtga tgaaaagcag cggtgttcat gaagctagtt
1141 cgtaa
(2) INFORMATION FOR SEQ ID NO:2964:
   (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 75 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2964:
   1 gtcacatcgc cctgctgggc tttgagaagc gcttcgtacc cagccagcac tatgtgtaca
  61 tgttcctggt gaaat
(2) INFORMATION FOR SEQ ID NO:2965:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 11651 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2965:
   1 ctagtctttc agccttcagg ctgtttttgg cttgaagctc tcttggcctc ctagtttcta
  61 cctaatcatg tccctggtgg aggccatcag cctctggaat gaaggggtgc tggcagcgga
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121 caagaaggac tggaagggag ccctggatgc cttcagtgcc gtccaggacc cccactcccg 181 gatttgcttc aacattggct gcatgtacac tatcctgaag aacatgactg aagcagagaa 241 ggcctttacc agaagcatta accgagacaa gcacttggca gtggcttact tccaacgagg 301 gatgctctac taccagacag agaaatatga tttggctatc aaagacctta aagaagcctt 361 gattcagctt cgagggaacc agctgataga ctataagatc ctggggctcc agttcaagct 421 gtttgcctgt gaggtgttat ataacattgc tttcatgtat gccaagaagg aggaatggaa 481 aaaagctgaa gaacagttag cattggccac gagcatgaag tctgagccca gacattccaa 541 aatcgacaag gcgatggagt gtgtctggaa gcagaagcta tatgagccag tggtgatccc 601 tgtgggcaag ctgtttcgac caaatgagag acaagtggct cagctggcca agaaggatta 661 cctaggcaag gcgacggtcg tggcatctgt ggtggatcaa gacagtttct ctgggtttgc 721 ccctctgcaa ccacaggcag ctgagcctcc acccagaccg aaaaccccag agatcttcag 781 ggctctggaa ggggaggctc accgtgtgct atttgggttt gtgcctgaga caaaagaaga 841 gctccaggtc atgccaggga acattgtctt tgtcttgaag aagggcaatg ataactgggc 901 cacggtcatg ttcaacgggc agaaggggct tgttccctgc aactaccttg aaccagttga 961 gttgcggatc caccetcage ageageecca ggaggaaage teteegeagt eegacateee 1021 agetectect agttecaaag eecetggaaa acceeagetg teaceaggee agaaacaaaa 1081 agaagagcct aaggaagtga agctcagtgt tcccatgccc tacacactca aggtgcacta 1141 caagtacacg gtagtcatga agactcagcc cgggctcccc tacagccagg tccgggacat 1201 ggtgtctaag aaactggage teeggetgga acacactaag etgagetate ggeeteggga 1261 cagcaatgag ctggtgcccc tttcagaaga cagcatgaag gatgcctggg gccaggtgaa 1321 aaactactgc ctgactctgt ggtgtgagaa cacagtgggt gaccaaggct ttccagatga 1381 acccaaggaa agtgaaaaag ctgatgctaa taaccagaca acagaacctc agcttaagaa 1441 aggcagccaa gtggaggcac tcttcagtta tgaggctacc caaccagagg acctggagtt 1501 tcaggaaggg gatataatcc tggtgttatc aaaggtgaat gaagaatggc tggaagggga 1561 gtgcaaaggg aaggtgggca ttttccccaa agtttttgtt gaagactgcg caactacaga 1621 tttggaaagc actcggagag aagtctagga tgtttcacaa actacaaagc tgaagaaaat 1681 gaagccctat tacttgtttg taagatttag cacccttctg ctgtatactg tactgagaca 1741 ttacagtttg gaagtgttaa ctatttattc cctgttaaaa tttaacctac tagacaatga 1801 tgtgagtacc caggatgatt tcctggggca cagtgggtga ggagatgggg acaggtgaat 1861 ggaggagtta ggggagagga aaagtggatg gaagtgtctg gaaagggcac gagagagtct 1921 tccaggtact gatectgttt cttgctctga gtgctagcta gccagctgtg ttcacactgt 1981 aaacattcat caagctgtac atttggtgca cttttctgtg tcataccaca ataaaaaaaa 2041 acctatcatc atcttacaaa aacaagacac ccaagtccag gcccaaggag taagtacaaa 2101 tattcctgtt tctgaaccat tactgtaatt ggctcttaag gcttgaagta accttatagg

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  181 caageetgtg ttagcagggg tggggtgaat getegtteet teagttgetg aaateetaat
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(2) INFORMATION FOR SEQ ID NO:2966:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1064 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2966:
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(2) INFORMATION FOR SEQ ID NO:2967:
   (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 1780 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2967:
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 241 gtaccettge aagaaattea atgagataaa gatetteatg gtgaacetea eeatggegga
 301 catgetette ttgateacce tgccaetttg gattgtetae taccaaaacc agggcaactg
 361 gatactcccc aaattcctgt gcaacgtggc tggctgcctt ttcttcatca acacctactg
 421 ctctgtggcc ttcctgggcg tcatcactta taaccgcttc caggcagtaa ctcggcccat
 481 caagactgct caggccaaca cccgcaagcg tggcatctct ttgtccttgg tcatctgggt
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1621 catacaaaaa ttagccgggc atggtgcaca cgcctgtagt cccagctact caggaggctg
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- (2) INFORMATION FOR SEQ ID NO:2968:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1467 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2968:
- 1 cgggaggcgg aggttgcggt gagctgagat cacgccactg cactccagcc tgggcagcaa 61 gagtgaaact ccatctgaaa aaaaaaaaa gattcaacat gaacttctga ggggacatca 121 tcattctaac catggcaagg agtcttggaa ctgatgaaat ggaacagtcc cttcttgtcc 181 ctttattaac cagaattttt gtgtggtctt ccaggcacca ccaggaccag ctgatcattc 241 cageceacag caatggagee acatgaetee teccaeatgg actetgagtt eegatacaet 301 ctcttcccga ttgtttacag catcatcttt gtgctcgggg tcattgctaa tggctacgtg 361 ctgtgggtct ttgcccgcct gtacccttgc aagaaattca atgagataaa gatcttcatg 421 gtgaacctca ccatggcgga catgctcttc ttgatcaccc tgccactttg gattgtctac 481 taccaaaacc agggcaactg gatactcccc aaattcctgt gcaacgtggc tggctgcctt 541 ttcttcatca acacctactg ctctgtggcc ttcctgggcg tcatcactta taaccgcttc 601 caggcagtaa ctcggcccat caagactgct caggccaaca cccgcaagcg tggcatctct 661 ttgtccttgg tcatctgggt ggccattgtg ggagctgcat cctacttcct catcctggac 721 tocaccaaca cagtgooga cagtgotggo toaggoaacg toactogotg otttgagoat 781 tacgagaagg gcagcgtgcc agtcctcatc atccacatct tcatcgtgtt cagcttcttc 841 ctggtcttcc tcatcatcct cttctgcaac ctggtcatca tccgtacctt gctcatgcag 901 ccggtgcagc agcagcgcaa cgctgaagtc acaggccggg cgctgtggat ggtgtgcacg 961 gtcttggcgg tgttcatcat ctgcttcgtg ccccaccacg tggtgcagct gccctggacc 1021 cttgctgagc tgggcttcca ggacagcaaa ttccaccagg ccattaatga tgcacatcag 1081 gtcaccctct gcctccttag caccaactgt gtcttagacc ctgttatcta ctgtttcctc 1141 accaagaagt tccgcaagca cctcaccgaa aagttctaca gcatgcgcag tagccggaaa 1201 tgctcccggg ccaccacgga tacggtcact gaagtggttg tgccattcaa ccagatccct 1261 ggcaattccc tcaaaaatta gtccctgctt ccaggcctga agtcttctcc tccatgaaca 1321 tcatggactg agctggggga agaagggata tctactgtgg tctgggcacc acctctgtgg 1381 gcactggtgg gccattagat ttggaggcta cctcacctgg gcagggatga tggcagacga 1441 ggctgttgga aaatccagaa ctcaaat
- (2) INFORMATION FOR SEQ ID NO:2969:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2969:
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 - 121 taatggctac gtgctgtggg tctttgcccg cctgtaccct tgcaagaaat tcaatgagat
 - 181 aaagatette atggtgaace teaceatgge ggacatgete ttettgatea eeetgeeact 241 ttggattgte tactaceaaa aceagggeaa etggataete eeeaattee tgtgeaacgt
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1725	agtcctcatc	atccacatct	tcatcgtgtt	cagcttcttc	ctggtcttcc	tcatcatcct
1785	cttctgcaac	ctggtcatca	tccgtacctt	gctcatgcag	ccggtgcagc	agcagcgcaa
1845	cactaaaatc	aagcgccggg	cactatagat	ggtgtgcacg	gtcttggcgg	tgttcatcat
1905	ctgcttcgtg	ccccaccacg	tggtgcagct	gccctggacc	cttgctgagc	tgggcttcca
1965	ggacagcaaa	ttccaccagg	ccattaatga	tgcacatcag	gtcaccctct	gcctccttag
2025	caccaactgt	gtcttagacc	ctgttatcta	ctgtttcctc	accaagaagt	tccgcaagca
2085	cctcaccgaa	aagttctaca	gcatgcgcag	tagccggaaa	tgctcccggg	ccaccacgga
2145	tacggtcact	gaagtggttg	tgccattcaa	ccagatccct	ggcaattccc	tcaaaaatta
2205	gtccctgctt	ccaggcctga	agtcttctcc	tccatgaaac	atcatgactg	agctggggga
2265	agaagggata	tctactgtgg	gtctgggcac	cacctctgtg	gcactggtgg	gccattagat
2325	ttggaggcta	cctcacctgg	gcagggatga	tgcagagcca	agtaactgta	actratract
2385	ttataatgag	teesttaate	ttatagaacc	cgcatactac ggaaggaatg	tranggread	gtgcagacct
2505	tagaaaaaa	ctttaaacca	cctagttctc	ccactggggc	atcogtctaa	agctttgggg
2565	aaataacccc	agtggctcac	acctgtaatc	ccagcacttt	gggaggccga	ggtgggcaga
2625	tcatgggtca	agagatcgag	acatcctggc	caacattgta	aaaccccatc	tctactaaaa
2685	catacaaaaa	ttagccgggc	atggtgcaca	cgcctgtagt	cccagctact	caggaggctg
2745	aggcaggaga	atcgcttgaa	cctgggaggc	agaggttgca	gtgaacctag	attgcaccat
2805	tgcactctag	cctggcaaca	gaggcagatt	ccctcctgcc		
2845	cgggaggcgg	aggttgcggt	gagctgagat	cacgccactg	cactccagcc	tgggcagcaa
2905	gagtgaaact	ccatctgaaa	aaaaaaaaa	gattcaacat	gaacttctga	ggggacatca
2965	tcattctaac	catggcaagg	agtcttggaa	ctgatgaaat	ggaacagtcc	cttcttgtcc
3025	ctttattaac	cagaattttt	gtgtggtctt	ccaggcacca	ccaggaccag	ctgatcattc
3085	cagcccacag	caatggagcc	acatgactcc	tcccacatgg	teattactaa	taactacata
3145	ctcttcccga	ttgtttacag	gtaccettac	gtgctcgggg aagaaattca	atrarataaa	gatetteatg
3203	atasacetes	ccatagagaga	catactcttc	ttgatcaccc	taccacttta	gattgtctac
3203	taccasaacc	agggagga	gatactcccc	aaattcctgt	gcaacgtggc	taactacctt
3323	ttcttcatca	acacctacto	ctctataacc	ttcctgggcg	tcatcactta	taaccqcttc
3445	caggcagtaa	ctcggcccat	caagactgct	caggccaaca	cccqcaaqcq	tggcatctct
3505	ttatccttaa	tcatctgggt	ggccattgtg	ggagctgcat	cctacttcct	catcctggac
3565	tccaccaaca	cagtgcccga	cagtgctggc	tcaggcaacg	tcactcgctg	ctttgagcat
3625	tacgagaagg	gcagcgtgcc	agtcctcatc	atccacatct	tcatcgtgtt	cagcttcttc
3685	ctggtcttcc	tcatcatcct	cttctgcaac	ctggtcatca	tccgtacctt	gctcatgcag
3745	ccggtgcagc	agcagcgcaa	cgctgaagtc	acaggccggg	cgctgtggat	ggtgtgcacg
3805	atcttaacaa	tgttcatcat	ctgcttcgtg	ccccaccacg	tggtgcagct	gccctggacc
3865	cttgctgagc	tgggcttcca	ggacagcaaa	ttccaccagg	ccattaatga	tgcacatcag
3925	gtcaccctct	gcctccttag	caccaactgt	gtcttagacc	ctgttatcta	ctgtttcctc
3985	accaagaagt	tccgcaagca	cctcaccgaa	aagttctaca	gcatgcgcag	tagccggaaa
4045	tgctcccggg	ccaccacgga	atcastast	gaayiygiig	agtettetee	ccagatccct tccatgaaca
4105	tcatacacta	coadaatta	giccolgott amaammaata	. ccayycciya .tctactataa	totagacace	acctctgtgg
4700	acactaataa	ayctyyyyd accattacat	ttananacta	cctcacctgg	gcagggatga	tggcagacga
7423	geaerggryg	goodecagae	229999000		J 2 2 2 3	J.J. 15.1.1.J.

4285 ggctgttgga aaatccagaa ctcaaat

- (2) INFORMATION FOR SEQ ID NO:2970:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 827 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2970:
 - 1 ctcctcctgc acaccttccg cacacctccc tcgctctccc acaccactgg caccaggccc
 - 61 cgcacacctg ctcggctgca ggagaatggc tactcatcac acgctgtgga tgggactggt
 - 121 cctgctgggg ctgctgggcg gcctacaggc agcacccgag gcccaggtct ccgtgcagcc
 - 181 caacttccag ccggacaagt tcctggggcg ctggttcagc gcgggcctcg cctccaactc
 - 241 gagctggctc caggagaaga aggcagcgct gtccatgtgc aagtcggtgg tggcccctgc 301 ggcggatggt ggcttcaacc tgacctccac cttcctcagg aaaaaccagt gtgagacccg
 - 361 aaccatgotg otgoagocog gggactooot oggetootac agotacogga gtococactg
 - 421 gggcagcacc tactctgtgt cagtggtgga gactgactac gaccactacg ccctgctgta
 - 481 cagccagggc agcaagggcc ccggcgagga cttccgcatg gccaccctct acagccgaac
 - 541 ccagacccc agggctgagt taaaggagaa atttaccgcc ttctgcaagg cccagggctt
 - 601 cacagaggat tccattgtct tcctgccca aaccgataag tgcatgacgg aacaatagga
 - 661 ctccccagag ctgaagctgg gaccgcagcc agccaggtga cccctgcgat ctggatgttt
 - 721 ccgctctgtt ccttccccqa gcccctqccc cqqctccccq ccaaaqcacc cctgccccct
 - 781 cgggcttcct cctggctctg cggaataaac tccggaagca agtctgt
- (2) INFORMATION FOR SEQ ID NO:2971:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2245 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2971:
- 1 ggagcaagag gtggttgggg ggggaccatg gctgacgttt tcccgggcaa cgactccacg 61 gcgtctcagg acgtggccaa ccgcttcgcc cgcaaagggg cgctgaggca gaagaacgtg 121 cacgaggtga aggaccacaa attcatcgcg cgcttcttca agcagcccac cttctgcagc 181 cactgcaccg acttcatctg ggggtttggg aaacaaggct tccagtgcca agtttgctgt 241 tttgtggtcc acaagaggtg ccatgaattt gttacttttt cttgtccggg tgcggataag 301 ggacccgaca ctgatgaccc caggagcaag cacaagttca aaatccacac ttacggaagc 361 cccaccttct gcgatcactg tgggtcactg ctctatggac ttatccatca agggatgaaa 421 tgtgacacct gcgatatgaa cgttcacaag caatgcgtca tcaatgtccc cagcctctgc 481 ggaatggatc acactgagaa gaggggggg atttacctaa aggctgaggt tgctgatgaa 541 aagetecatg teacagtacg agatgeaaaa aatetaatee etatggatee aaacgggett 601 tcagatcctt atgtgaagct gaaacttatt cctgatccca agaatgaaag caagcaaaaa 661 accaaaacca tccgctccac actaaatccg cagtggaatg agtcctttac attcaaattg 721 aaaccttcag acaaagaccg acgactgtct gtagaaatct gggactggga tcgaacaaca 781 aggaatgact tcatgggatc cctttccttt ggagtttcgg agctgatgaa gatgccggcc 841 agtggatggt acaagttgct taaccaagaa gaaggtgagt actacaacgt acccattccg 901 gaaggggacg aggaaggaaa catggaactc aggcagaaat tcgagaaagc caaacttggc 961 cctgctggca acaaagtcat cagtccctct gaagacagga aacaaccttc caacaacctt 1021 gaccgagtga aactcacgga cttcaatttc ctcatggtgt tgggaaaggg gagttttgga 1081 aaggtgatgc ttgccgacag gaaggcaca gaagaactgt atgcaatcaa aatcctgaag 1141 aaggatgtgg tgattcagga tgatgacgtg gagtgcacca tggtagaaaa gcgagtcttg 1201 gccctgcttg acaaaccccc gttcttgacg cagctgcact cctgcttcca gacagtggat 1261 cggctgtact tcgtcatgga atatgtcaac ggtggggacc tcatgtacca cattcagcaa 1321 gtaggaaaat ttaaggaacc acaagcagta ttctatgcgg cagagatttc catcggattg 1381 ttctttcttc ataaaagagg aatcatttat agggatctga agttagataa cgtcatgttg 1441 gattcagaag gacatatcaa aattgctgac tttgggatgt gcaaggaaca catgatggat 1501 ggagtcacga ccaggacett ctgtgggact ccagattata tcgccccaga gataatcgct 1561 tatcagccgt atggaaaatc tgtggactgg tgggcctatg gcgtcctgtt gtatgaaatg 1621 cttgccgggc agcctccatt tgatggtgaa gatgaagacg agctatttca gtctatcatg 1681 gagcacaacg tttcctatcc aaaatccttg tccaaggagg ctgtttctat ctgcaaagga 1741 ctgatgacca aacacccagc caagcggctg ggctgtgggc ctgaggggga gagggacgtg 1801 agagagcatg ccttcttccg gaggatcgac tgggaaaaac tggagaacag ggagatccag 1861 ccaccattca agcccaaagt gtgtggcaaa ggagcagaga actttgacaa gttcttcaca

1921 cgaggacage ccgtettaac accaectgat cagetggtta ttgetaacat agaccagtet 1981 gattttgaag ggttetegta tgteaacece cagtttgtge acceeatett acagagtgea 2041 gtatgaaact caecagegag aacaaacace teeccageee ceageeetee eegcagtgga

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2101 agtgaatcet taaccetaaa attttaagge caeggettgt gtetgattee atatggagge 2161 etgaaaattg tagggttatt agteeaaatg tgateaactg tteagggtet etetettaea 2221 accaagaaca ttatettagt ggaag
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(2) INFORMATION FOR SEQ ID NO:2972:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 636 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2972:
- 1 cttatcacag ttcaagtgat ttccagaagt tccagggctt ctgagagacc atcaagggaa 61 ctttaacaac ttgacaaatg tccttgaagt aagatgcctc atctttaggg aaaaatgggg 121 tttggattc tgcttaggca aagtctcctg cagttcatcc ttctctgtcc tcttcttgct 181 tcaggcttgg ggaccgtccc tgctgtccc actgtggtgg caatcaggac ctaaggtgaa 241 gcaaacttga agttctatct gacaagttta ggcagtaaga gaaggaggga aatcggagca 301 aagctccctc actttattgt tgagaaactg gcatctggaa agaagaagga atttgcccaa 361 agtcagtcag ctgggataaa aacctgggtg tcctgtccag aaagtgcagg gtgctttctg 421 ctctgtagca aggcagcaga catctctgag ccaggcccac caacaggccc ttatctggtg 481 gttggatcat gatcccatt tgcttggaca tgctctcagg aagataaaaa ccatggagaa
- 541 acactaggcc attgacaaat gatctgagac aactttagaa aacaatgtag gatgaatgga 601 aagagaaaga aaggaaagaa aaaaaaaaa aaaagg
- (2) INFORMATION FOR SEQ ID NO:2973:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2574 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2973:
- 1 cagageegge geaggggaag egeeegggge eeegggtgea geagegeeeg eegeeteeeg 61 ggcctccccg gcccgcagcc cggggtcccg ggccccgggg ccggcacctc tcgggctccg 121 gctccccgcg cgcaagatgg ctgacccggc tgcggggccg ccgccgagcg agggcgagga 181 gagcaccgtg cgcttcgccc gcaaaggcgc cctccggcag aagaacgtgc atgaggtcaa 241 gaaccacaaa ttcaccgccc gcttcttcaa gcagcccacc ttctgcagcc actgcaccga 301 cttcatctgg ggcttcggga agcagggatt ccagtgccaa gtttgctgct ttgtggtgca 361 caageggtge catgaatttg teacattete etgeeetgge getgacaagg gteeageete 421 cgatgacccc cgcagcaaac acaagtttaa gatccacacg tactccagcc ccacgttttg 481 tgaccactgt gggtcactgc tgtatggact catccaccag gggatgaaat gtgacacctg 541 catgatgaat gtgcacaagc gctgcgtgat gaatgttccc agcctgtgtg gcacggacca 601 cacggagege egeggeegea tetacateca ggeecacate gacagggaeg teeteattgt 661 cctcgtaaga gatgctaaaa accttgtacc tatggacccc aatggcctgt cagatcccta 721 cgtaaaactg aaactgattc ccgatcccaa aagtgagagc aaacagaaga ccaaaaccat 781 caaatgctcc ctcaaccctg agtggaatga gacatttaga tttcagctga aagaatcgga 841 caaagacaga agactgtcag tagagatttg ggattgggat ttgaccagca ggaatgactt 901 catgggatct ttgtcctttg ggatttctga acttcagaag gccagtgttg atggctggtt 961 taagttactg agccaggagg aaggcgagta cttcaatgtg cctgtgccac cagaaggaag ·1021 tgaggccaat gaagaactgc ggcagaaatt tgagagggcc aagatcagtc agggaaccaa 1081 ggtcccggaa gaaaagacga ccaacactgt ctccaaattt gacaacaatg gcaacagaga 1141 ccggatgaaa ctgaccgatt ttaacttcct aatggtgctg gggaaaggca gctttggcaa 1201 ggtcatgctt tcagaacgaa aaggcacaga tgagctctat gctgtgaaga tcctgaagaa 1261 ggacgttgtg atccaagatg atgacgtgga gtgcactatg gtggagaagc gggtgttggc 1321 cctgcctggg aagccgccct tcctgaccca gctccactcc tgcttccaga ccatggaccg 1381 cctgtacttt gtgatggagt acgtgaatgg gggcgacctc atgtatcaca tccagcaagt 1441 cggccggttc aaggagcccc atgctgtatt ttacgctgca gaaattgcca tcggtctgtt 1501 cttcttacag agtaagggca tcatttaccg tgacctaaaa cttgacaacg tgatgctcga 1561 ttctgaggga cacatcaaga ttgccgattt tggcatgtgt aaggaaaaca tctgggatgg 1621 ggtgacaacc aagacattct gtggcactcc agactacatc gcccccgaga taattgctta 1681 tcagccctat gggaagtccg tggattggtg ggcatttgga gtcctgctgt atgaaatgtt 1741 ggctgggcag gcaccctttg aaggggagga tgaagatgaa ctcttccaat ccatcatgga 1801 acacaacgta gcctatccca agtctatgtc caaggaagct gtggccatct gcaaagggct 1861 gatgaccaaa cacccaggca aacgtctggg ttgtggacct gaaggcgaac gtgatatcaa 1921 agagcatgca tttttccggt atattgattg ggagaaactt gaacgcaaag agatccagcc 1981 cccttataag ccaaaagcta gagacaagag agacacctcc aacttcgaca aagagttcac 2041 cagacageet gtggaactga eccecactga taaactette atcatgaact tggaccaaaa 2101 tgaatttgct ggcttctctt atactaaccc agagtttgtc attaatgtgt aggtgaatgc

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2161 aaactccatc gttgagcctg gggtgtaaga cttcaagcca agcgtatgta tcaattctag
2221 tcttcagga ttcacggtgc acatgctggc attcaacatg tggaaagctt gtcttagagg
2281 cctttcttgt atgtgtagct tgctagtttg ttttctacat ttgaaaatgt ttagtttaga
2341 ataagcgcat tatccaatta tagaggtaca attttccaaa cttccagaaa ctcatcaaat
2401 gaacagacaa tgtcaaaact actgtgtctg ataccaaaat gcttcagtat ttgtaattt
2461 tcaagtcaga agctgatgtt cctggtaaaa gtttttacag ttattctata atatcttct
2521 tgaatgctaa gcatgagcga tatttttaaa aattgtgagt aagcttcgga attc
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- (2) INFORMATION FOR SEQ ID NO:2974:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2974:
- 1 cagageegge geaggggaag egeeegggge eeegggtgea geagegeeeg eegeeteeeg 61 ggcctccccg gcccgcagcc cggggtcccg ggccccgggg ccggcacctc tcgggctccg 121 gctccccgcg cgcaagatgg ctgacccggc tgcggggccg ccgccgagcg agggcgagga 181 gagcaccgtg cgcttcgccc gcaaaggcgc cctccggcag aagaacgtgc atgaggtcaa 241 gaaccacaaa ttcaccgccc gcttcttcaa gcagcccacc ttctgcagcc actgcaccga 301 cttcatctgg ggcttcggga agcagggatt ccagtgccaa gtttgctgct ttgtggtgca 361 caageggtge catgaatttg teacattete etgeeetgge getgacaagg gteeageete 421 cgatgacccc cgcagcaaac acaagtttaa gatccacacg tactccagcc ccacgttttg 481 tgaccactgt gggtcactgc tgtatggact catccaccag gggatgaaat gtgacacctg 541 catgatgaat gtgcacaagc gctgcgtgat gaatgttccc agcctgtgtg gcacggacca 601 cacggagege egeggeegea tetacateca ggeecacate gacagggaeg teeteattgt 661 cctcgtaaga gatgctaaaa accttgtacc tatggacccc aatggcctgt cagatcccta 721 cgtaaaactg aaactgattc ccgatcccaa aagtgagagc aaacagaaga ccaaaaccat 781 caaatgctcc ctcaaccctg agtggaatga gacatttaga tttcagctga aagaatcgga 841 caaagacaga agactgtcag tagagatttg ggattgggat ttgaccagca ggaatgactt 901 catgggatct ttgtcctttg ggatttctga acttcagaag gccagtgttg atggctggtt 961 taagttactg agccaggagg aaggcgagta cttcaatgtg cctgtgccac cagaaggaag 1021 tgaggccaat gaagaactgc ggcagaaatt tgagagggcc aagatcagtc agggaaccaa 1081 ggtcccggaa gaaaagacga ccaacactgt ctccaaattt gacaacaatg gcaacagaga 1141 ccggatgaaa ctgaccgatt ttaacttcct aatggtgctg gggaaaggca gctttggcaa 1201 ggtcatgctt tcagaacgaa aaggcacaga tgagctctat gctgtgaaga tcctgaagaa 1261 ggacgttgtg atccaagatg atgacgtgga gtgcactatg gtggagaagc gggtgttggc 1321 cctgcctggg aagccgccct tcctgaccca gctccactcc tgcttccaga ccatggaccg 1381 cctgtacttt gtgatggagt acgtgaatgg gggcgacctc atgtatcaca tccagcaagt 1441 cggccggttc aaggagcccc atgctgtatt ttacgctgca gaaattgcca tcggtctgtt 1501 cttcttacag agtaagggca tcatttaccg tgacctaaaa cttgacaacg tgatgctcga 1561 ttctgaggga cacatcaaga ttgccgattt tggcatgtgt aaggaaaaca tctgggatgg 1621 ggtgacaacc aagacattct gtggcactcc agactacatc gcccccgaga taattgctta 1681 tcagccctat gggaagtccg tggattggtg ggcatttgga gtcctgctgt atgaaatgtt 1741 ggctgggcag gcaccetttg aaggggagga tgaagatgaa ctcttccaat ccatcatgga 1801 acacaacgta gcctatccca agtctatgtc caaggaagct gtggccatct gcaaagggct 1861 gatgaccaaa cacccaggca aacgtctggg ttgtggacct gaaggcgaac gtgatatcaa 1921 agagcatgca tttttccggt atattgattg ggagaaactt gaacgcaaag agatccagcc 1981 cccttataag ccaaaagctt gtgggcgaaa tgctgaaaac ttcgaccgat ttttcacccg 2041 ccatccacca gtcctaacac ctcccgacca ggaagtcatc aggaatattg accaatcaga 2101 attcgaagga ttttcctttg ttaactctga atttttaaaa cccgaagtca agagctaagt 2161 agatgtgtag atctccgtcc ttcatttctg tcattcaagc tcaacggcta ttgtggtgac 2221 atttttatgt ttttcattgc caagttgcat ccatgtttga ttttctgatg agactagagt 2281 gacagtgttt cagaacccaa atgtcctcag gtagtttgga gcatctctat gagatgggat 2341 tatgcagatg gcctatggaa aatgcagctg cataattaac acattatcaa agtcctctta 2401 caatttattt tccgcagcat gtcagctaag tagacccaat ggggagagaa aatgcctgct 2461 ttctttccct ctttttctgc actgccatat tcacccccaa ccatccaatc tgtggataat 2521 tggatgttag cggtactctt ccacttccgg tcctggagct tggcttgtat ccaagtgtat 2581 ggttgctttg cctaagagga atccctctat ttcacctgtt ctggaggcac cagaccttga 2641 aaagaacatg ctcaaaataa aatgttatct gttatttttg taaactcaaa gttaagatga 2701 tcaaagttct aaaattccaa gaatgtgctt ttagacggtc tcaatctaaa agcacttcaa 2761 ggggtcaaag ggcaaccagc ttggtgctac ctcagtgttg tagtttctga tactttatgt 2821 ctttgctcac cctcatcccc aaactacttg aaaagggcat ttggcaccac tctctgaaac

(2) INFORMATION FOR SEQ ID NO:2975:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 621 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2975:
- 1 gtccttcatt ccttccacaa ctatttatcc agcaccgttt ctgggcacag ggctccagcg 61 atggtcccaa caggtacaat gacctctggg gaccaagttc agttcttggt gagttctcca 121 gtgcctctcg atgtaggatg aaccgttgc atgctccact gacgctggct ccttctgttg 181 tttctcttgg ctccaggacc cccgcagcaa acacaagttt aagatccaca cgtactccag 241 ccccacgttt tgtgaccact gtgggtcact gctgtatgga ctcatccacc aggggatgaa 301 atgtgacagt aagtacttc tctctctggg ggcatctgct gatggcagaa gcaatgggaa 361 gggctgcttc cacttggttt ggggtccagg tctgccatac attccccct gtcctcgttg 421 gggctggtgt accagttatc tgttgctgca taatgatcct cccaccccaa aacactgtga 481 ctgaagacaa taaacatttt tttagctcat gactctgcaa ggcagtcctt tgaatctggg 541 ctggcctcag ctgatgtcac gcatgttcat aaagcatgaa ctcatggttc atggtggatt 601 agcagatgga ggtgggctgg g
- (2) INFORMATION FOR SEQ ID NO:2976:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1559 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2976:
- 1 acatcaagga gacgagtcct ggttggatag taatgtcttt aacacccctc tagcatttat 61 taattteete tettaacaaa taaaagatge eetteagtea gatgettagg acagatgacg 121 cacctagaga tattttaata atgtagatac tcttgctgtt caaactcaga ccaaaatgac 181 gataggettt tttggccccc agagggtgca caaatacgac cagaatttgt gaagacgagt 241 cagaaatgaa tgaaatttgg aaaaatattg atctactgaa atccttcctc cccacactat 301 tagccctatg ttacagttgg ggaaacggag tcgttttgca gaggggatgg acagaaggta 361 gggagttete ttecaaaegt geaggaggea ageaaageea agaatettet etgtggtgag 421 ttagagacat ataaaataaa gatcgctcct cccctacctc tgcagaacgt gtgtgtgtat 481 gtgtgtgtaa gtgtgtgcgg ccacaagcct ttccgaatga gtgacagcgg gagcccatcc 541 ctccaggaga cgcgtgcaga atgaccaatg ggatggatgg gggtggatgg gtaccagtct 601 ccgcagaggc cggggtggga attcgctgcg ccccacccct tccacccgct ccccttcgcc 661 ccgtaggtet ttecactete getecteece tgggeacate teetgaacge ageceegggg 721 geogaggacg gggtggggtg gggggcgagg etegggteeg acgaeeeegg getgeggtee 781 eggegetgea gagetgegge tgtgeaeget tageegegag geeegeggta geeegggege 841 cgatatgtaa agcagctggc agcgctgggc ggggcctggg cgcgactgca aatgaggagg 901 gcgcgggctg gcccgggggc tccgcctccc tcccccgcag ctggggccag cggctgccaa 961 gegeactggt egageggeag eagetgggeg aggtgaeage eeeggeteeg egegeeggee 1021 gccagagccg gcgcagggga agcgccgcg gccccgggtg cagcagcggc cgccgcctcc 1081 cgcgcctccc cggcccgcag cccgcggtcc cgcgccccgg ggccggcacc tctcgggctc 1141 cggctccccg cgcgcaagat ggctgacccg gctgcggggc cgccgccgag cgagggcgag 1201 gagageaccg tgcgcttcgc ccgcaaaggc gccctcaggc agaagaacgt gcatgaggtc 1261 aagaaccaca aattcaccgc ccgcttcttc aagcagccca ccttctgcag ccactgcacc 1321 gacttcatct ggtgaccccc caggcactcc ggccccaggc cacgccgcgc caggaccccc 1381 tetecgegee etetgegeee teegeaceet ggaceeegeg teeceggaet eeeegeteeg 1441 gaccetgetg eccgggacte ecggatggac agtectagee gttgeeetgt ecceaecetg 1501 gtcccagacg ggccgccgcg ggcgcctcct gccctctcct gctctcaggc gcctctaga
- (2) INFORMATION FOR SEQ ID NO:2977:
 - (i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 2510 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2977:
    1 gtcgactgca ggtcaacgga cacatcaagg agagagtcct ggttggatag taatgtcttt
   61 aacacccctc tagcatttat taatttcctc tcttaacaaa taaaagatga cttcagttga
  121 agateettag gacagatgae ggeaeetgga gatattttaa taatgtagat accetettge
  181 tgttcaaact cagaccaaaa gagatggctt tttttccccc agagggtgca caaatacgac
  241 agaatttgtg aagacgagtc agaaatgaat gaaatttgga aaaatattga tctactgaaa
  301 teetteetee ceacactatt agecetatgt tacagttggg gaaacggagt egttttgcag
  361 aggggatgga cagaaggtag ggagttetet tecaaegtge aggaggeaag caaageeaag
  421 catcttetet gtggtggagt tagagacata taaaataaga tcgctcctcc cctacctctg
  481 cagaacgtgt gtgtgtatgt gtgtgtaacg tgtgtgcggc cacaagcctt tccgaatgag
  541 tgacagcggg agcccatccc tccaggagac gcgtgcagaa tgaccaatgg gatggatggg
  601 ggtggatggg taccgtctcc gcgaggccgg ggtggaattc gctgcgcccc accccttcca
  661 cccgctcccc ttcgccccgt aggtctttcc actctcgctc ctcccctggg cacatctcct
  721 gaacgcagcc ccgggggccg aggacggggt ggggtggggg gcgaggctcg ggtccgacga
  781 ccccgggctg cggtcccggc gctgcagagc tgcggctgtg cacgcttagc cgcgaggccc
  841 gcggtagccc gggcgccgat atgtaaagca gctggcagcg ctgggcgggg cctgggcgcg
  901 atgcaaatga ggagggggg getggeeegg ggeteegeet eeeteeeeg cagetgggge
  961 cageggtgee aagegeaget ggaegagegg cageagetgg gegagtgaea geeeeggete
 1021 cgcgccccc ggccgccaga gccggcgcag gggaagcgcc cgcggccccg ggtgcagcag
 1081 cggccgccgc ctcccggccc tccccggccc gcagcccgcg gtcccgcggc cccggggccg
 1141 gcacctctcg ggctccggct ccccgcgcgc aagatggctg acccggctgc ggggccgccg
 1201 ccgagcgagg gcgaggagag caccgtgcgc ttcgcccgca aaggcgccct caggcagaag
 1261 aacgtgcatg aggtcaagaa ccacaaattc accgcccgct tcttcaagca gcccaccttc
 1321 tgcagccact gcaccgactt catctggtgg agcgcgcgcg caaggcacct tcccgggccc
 1381 ccgaggcage geegegeeaa gggaeeeeet eteegeeete tgegeeetee geaeeetgga
 1441 ccccgcgtcc ccggactccc cgctccggac cctgctgccg ggactcccgg atggacagtc
 1501 ctgccgttgc cctgtcccca ccctggtccc aggacggggg cgcctcctgc cctctcctgc
1561 teteaggege etetagageg eccaggggea gegtegeggg egeetttget ecacetgaet
1621 aggaggggc ggggtctgtg cctgccctgg agggcagcgc ctcgggtgct ctccgacccg
1681 gggttcccta tctctccgcc tgcttccggg cgcgaggagc cctcgcccc caccccttgt
1741 ttccgggggg ggggggggc gccctgggtg tccttctcta tctctgcggg catgggacat
1801 cctttctcac tcctctgtgc ctcggcagcg ccctgtgtta tctcccattg ccctccccga
1861 gggcctggtt cccctttcca ctcctcggtc acatcactgc gggccccttt cttccccagt
1921 ccctccagta gtggggcatc ctttcctcct tcccagtccc cctcccagag gacaccaccg
2041 tgctcggggc atctatgggt acatctgtcg cctgccttca gcccctaccc cgacggaaac
2101 gctccccact atcccgccac ctggtggtcg cagcctcctc tcttctgcag gagtgaaggc
2161 agateggggt tacageegag eteceaceta ecceeacaaa ggeggaagae tettgggeae
2221 ccgcctgtgg ctgggagttt gcacctgggg tacagaggca gggaggaagg cgggtgactc
2281 tgtgggtaac tagctggagg ctgggccccc gggctgcctg acatacacct ccttctgctt
2341 ttgcaggggc ttcgggaagc agggattcca gtgccaaggt aggctctggg gctttgggga
2401 tgctatttgt gggaagagag ggtgaaaaat actttataga agaagttact gagttaggca
2461 gagagtgaaa gaatcacgtt ggtcggagtg acctcccagg ctaggaattc
(2) INFORMATION FOR SEQ ID NO:2978:
  (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 2163 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2978:
   1 aaagcgacca tgtatcctga gtggaagtcg acgttcgatg cccacatcta tgaggggcgc
  61 gtcatccaga ttgtgctaat gcgggcagca gaggagccag tgtctgaggt gaccgtgggt
 121 gtgtcggtgc tggccgagcg ctgcaagaag aacaatggca aggctgagtt ctggctggac
 181 ctgcagcctc aggccaaggt gttgatgtct gttcagtatt tcctggagga cgtggattgc
 241 aaacagteta tgegeagtga ggaegaggee aagtteecaa egatgaaceg eegeggagee
 301 atcaaacagg ccaaaatcca ctacatcaag aaccatgagt ttatcgccac cttctttggg
 361 caacccacct tctgttctgt gtgcaaagac tttgtctggg gcctcaacaa gcaaggctac
 421 aaatgcaggc aatgtaacgc tgccatccac aagaaatgca tcgacaagat catcggcaga
 481 tgcactggca ccgcggccaa cagccgggac actatattcc agaaagaacg cttcaacatc
 541 gacatgccgc accgcttcaa ggttcacaac tacatgagcc ccaccttctg tgaccactgc
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601 ggcagcctgc tctggggact ggtgaagcag ggattaaagt gtgaagactg cggcatgaat

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661 gtgcaccata aatgccggga gaaggtggcc aacctctgcg gcatcaacca gaagcttttg
 721 gctgaggcct tgaaccaagt cacccagaga gcctcccgga gatcagactc agcctcctca
 781 gagcctgttg ggatatatca gggtttcgag aagaagaccg gagttgctgg ggaggacatg
 841 caagacaaca gtgggaccta cggcaagatc tgggagggca gcagcaagtg caacatcaac
 901 aacttcatct tccacaaggt cctgggcaaa ggcagcttcg ggaaggtgct gcttggagag
 961 ctgaagggca gaggagagta ctttgccatc aaggccctca agaaggatgt ggtcctgatc
1021 gacgacgacg tggagtgcac catggttgag aagcgggtgc tgacacttgc cgcagagaat
1081 ccctttctca cccacctcat ctgcaccttc cagaccaagg accacctgtt ctttgtgatg
1141 gagttcctca acgggggga cctgatgtac cacatccagg acaaaggccg ctttgaactc
1201 taccgtgcca cgttttatgc cgctgagata atgtgtggac tgcagtttct acacagcaag
1261 ggcatcattt acagggacct caaactggac aatgtgctgt tggaccggga tggccacatc
1321 aagattgccg actttgggat gtgcaaagag aacatattcg gggagagccg ggccagcacc
1381 ttctgcggca cccctgacta tatcgcccct gagatcctac agggcctgaa gtacacattc
1441 tctgtggact ggtggtcttt cggggtcctt ctgtacgaga tgctcattgg ccagtcccc
1501 ttccatggtg atgatgagga tgaactcttc gagtccatcc gtgtggacac gccacattat
1561 ccccgctgga tcaccaagga gtccaaggac atcctggaga agctctttga aagggaacca
1621 accaagagge tgggagtgac gggaaacate aaaatecace cettetteaa gaccataaac
1681 tggactctgc tggaaaagcg gaggttggag ccacccttca ggcccaaagt gaagtcaccc
1741 agagactaca gtaactttga ccaggagttc ctgaacgaga aggcgcgcct ctcctacagc
1801 gacaagaacc tcatcgactc catggaccag tctgcattcg ctggcttctc ctttgtgaac
1861 cccaaattcg agcacctcct ggaagattga ggttcctgga cagatcaggc tagccctgcc
1921 ctccacccac acctgcccgc tccccacgat aagcaccagt gggactgtgg tgacttctgc
1981 tgctggcccc gcccctgccc ccagagcgtc cttggctgcc gtctggccgg gctctcatgg
2041 tacttcctct gtgaactgtg tgtgaatctg cttttcctct gccttcggag ggaaattgta
2101 aatcctgtgt ttcattactt gaatgtagtt atctattgaa aatatacttt agagcacaat
2161 gga
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- (2) INFORMATION FOR SEQ ID NO:2979:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2104 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2979:
- 1 tgccgccgcg accettggcg cctgcccctg caacgggagc cccactgcag gccccaccat 61 ggcgccgttc ctgcgcatcg ccttcaactc ctatgagctg ggctccctgc aggccgagga 121 cgaggcgaac cagcccttct gtgccgtgaa gatgaaggag gcgctcagca cagagcgtgg 181 gaaaacactg gtgcagaaga agccgaccat gtatcctgag tggaagtcga cgttcgatgc 241 ccacatctat gaggggcgcg tcatccagat tgtgctaatg cgggcagcag aggagccagt 301 gtctgaggtg accgtgggtg tgtcggtgct ggccgagcgc tgcaagaaga acaatggcaa 361 ggctgagttc tggctggacc tgcagcctca ggccaaggtg ttgatgtctg ttcagtattt 421 cctggaggac gtggattgca aacaatctat gcgcagtgag gacgaggcca agttcccaac 481 gatgaaccgc cgcggagcca tcaaacaggc caaaatccac tacatcaaga accatgagtt 541 tatcgccacc ttctttgggc aacccacctt ctgttctgtg tgcaaagact ttgtctgggg 601 cctcaacaag caaggctaca aatgcaggca atgtaacgct gccatccaca agaaatgcat 661 cgacaagate ateggeagat geactggeac egeggeeaac ageegggaca etatatteea 721 gaaagaacgc ttcaacatcg acatgccgca ccgcttcaag gttcacaact acatgagccc 781 caccitctgt gaccactgcg gcagcctgct ctggggactg gtgaagcagg gattaaagtg 841 tgaagactgc ggcatgaatg tgcaccataa atgccgggag aaggtggcca acctctgcgg 901 catcaaccag aagcttttgg ctgaggcctt gaaccaagtc acccagagag cctcccggag 961 atcagactca gcctcctcag agcctgttgg gatatatcag ggtttcgaga agaagaccgg 1021 agttgctggg gaggacatgc aagacaacag tgggacctac ggcaagatct gggagggcag 1081 cagcaagtgc aacatcaaca acttcatctt ccacaaggtc ctgggcaaag gcagcttcgg 1141 gaaggtgctg cttggagagc tgaagggcag aggagagtac tctgccatca aggccctcaa 1201 gaaggatgtg gtcctgatcg acgacgacgt ggagtgcacc atggttgaga agcgggtgct 1261 gacacttgcc gcagagaatc cetttctcac ccacctcatc tgcaccttcc agaccaagga 1321 ccacctgttc tttgtgatgg agttcctcaa cgggggggac ctgatgtacc acatccagga 1381 caaaggccgc tttgaactct accgtgccac gttttatgcc gctgagataa tgtgtggact 1441 gcagtttcta cacagcaagg gcatcattta cagggacctc aaactggaca atgtgctgtt 1501 ggaccgggat ggccacatca agattgccga ctttgggatg tgcaaagaga acatattcgg 1561 ggagagccgg gccagcacct tctgcggcac ccctgactat atcgcccctg agatcctaca 1621 gggcctgaag tacacattct ctgtggactg gtggtctttc ggggtccttc tgtacgagat 1681 gctcattggc cagtccccct tccatggtga tgatgaggat gaactcttcg agtccatccg 1741 tgtggacacg ccacattatc cccgctggat caccaaggag tccaaggaca tcctggagaa 1801 gctctttgaa agggaaccaa ccaagaggct gggaatgacg ggaaacatca aaatccaccc

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1861 cttcttcaag accataaact ggactctgct ggaaaagcgg aggttggagc cacccttcag
1921 gcccaaagtg aagtcaccca gagactacag taactttgac caggagttcc tgaacgagaa
1981 ggcgcgcctc tcctacagcg acaagaacct catcgactcc atggaccagt ctgcattcgc
2041 tggcttctcc tttgtgaacc ccaaattcga gcacctcctg gaagattgag gttcctggac
2101 agat
(2) INFORMATION FOR SEO ID NO:2980:
   (i) SEOUENCE CHARACTERISTICS:
     (A) LENGTH: 2146 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2980:
   1 cccaaqatqq aaqqqaqcqq cqqccqcqtc cqcctcaaqq cqcattacqq qqqqqacatc
  61 ttcatcacca gcgtggacgc cgccacgacc ttcgaggagc tctgtgagga agtgagagac
 121 atgtgtcgtc tgcaccagca gcacccgctc accctcaaqt ggqtgqacag cgaaggtgac
 181 ccttgcacgg tgtcctccca gatggagctg gaagaggctt tccgcctggc ccgtcagtgc
 241 agggatgaag geeteateat teatgtttte eegageacee etgageagee tggeetgeea
 301 tgtccgggag aagacaaatc tatctaccgc cggggagcca gaagatggag gaagctgtac
 361 cgtgccaacg gccacctctt ccaagccaag cgctttaaca ggagagcgta ctgcggtcag
 421 tgcagcgaga ggatatgggg cctcgcgagg caaggctaca ggtgcatcaa ctgcaaactg
 481 ctggtccata agcgctgcca cggcctcgtc ccgctgacct gcaggaagca tatggattct
 541 gtcatgcctt cccaagagcc tccagtagac gacaagaacg aggacgccga ccttccttcc
 601 gaggagacag atggaattgc ttacatttcc tcatcccgga agcatgacag cattaaagac
 661 gactcggagg accttaagcc agttatcgat gggatggatg gaatcaaaat ctctcagggg
 721 cttgggctgc aggactttga cctaatcaga gtcatcgggc gcgggagcta cgccaaggtt
 781 ctcctggtgc ggttgaagaa gaatgaccaa atttacgcca tgaaagtggt gaagaaagag
 841 ctggtgcatg atgacgagga tattgactgg gtacagacag agaagcacgt gtttgagcag
 901 gcatccagca accepttect ggteggatta cacteetget tecagacgae aagteggttg
 961 ttcctggtca ttgagtacgt caacggcggg gacctgatgt tccacatgca gaggcagagg
1021 aageteeetg aggageaege caggttetae geggeegaga tetgeatege ceteaaette
1081 ctgcacgaga gggggatcat ctacagggac ctgaagctgg acaacgtcct cctggatgcg
1141 gacqqqcaca tcaaqctcac agactacggc atgtgcaagg aaggcctggg ccctggtgac
1201 acaacgagca ctttctgcgg aaccccgaat tacatcgccc ccgaaatcct gcggggagag
1261 gagtacgggt tcagcgtgga ctggtgggcg ctgggagtcc tcatgtttga gatgatggcc
1321 gggcgctccc cgttcgacat catcaccgac aacccggaca tgaacacaga ggactacctt
1381 ttccaagtga tcctggagaa gcccatccgg atcccccggt tcctgtccgt caaagcctcc
1441 catgttttaa aaggattttt aaataaggac cccaaagaga ggctcggctg ccggccacag
1501 actggatttt ctgacatcaa gtcccacgcg ttcttccgca gcatagactg ggacttgctg
1561 gagaagaagc aggcgctccc tccattccag ccacagatca cagacgacta cggtctggac
1621 aactttgaca cacagttcac cagcgagccc gtgcagctga ccccagacga tgaggatgcc
1681 ataaagagga tcgaccagtc agagttcgaa ggctttgagt atatcaaccc attattgctg
1741 tccaccgagg agtcggtgtg aggccgcgtg cgtctctgtc gtggacacgc gtgattgacc
1801 ctttaactgt atccttaacc accgcatatg catgccaggc tgggcacggc tccgagggcg
1861 gccagggaca gacgcttgcg ccgagaccgc agagggaagc gtcagcgggc gctgctggga
1921 gcagaacagt ccctcacacc tggcccggca ggcagcttcg tgctggagga acttgctgct
1981 gtgcctgcgt cgcggcggat ccgcggggac cctgccgagg gggctgtcat gcggtttcca
2041 aggtgcacat tttccacqqa aacaqaactc qatqcactqa cctqctccqc caqqaaagtq
2101 agcgtgtagc gtcctgagga ataaaatgtt ccgatgaaaa aaaaaa
(2) INFORMATION FOR SEQ ID NO:2981:
   (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1423 base pairs
    (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2981:
   1 gggccggcgg cggcggcgac tctggacgcg agccgggccc ttcccgtgga tcgccccagc
  61 tgcggcggcc gtcgcggccg cccccgggtg gcacttccgt gtgccgcggc gccggagccc
 121 gaggeggetg tageceaeat etecegageg acceeeggeg eeegeeegee gegeggagge
 241 cgcgcgcgcc ggggagcggc gccccgccg ctgccgccgc gacccttggc gcctgcccct
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301 gcaacgggag ccccactgca ggccccacca tggcgccgtt cctgcgcatc gccttcaact 361 cctatgagct gggctccctg caggccgagg acgaggcgaa ccagcccttc tgtgccgtga

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421 agatgaagga ggcgctcagc acagagcgtg ggaaaacact ggtgcagaag aagccgacca
 481 tgtatcctga gtggaagtcg acgttcgatg cccacatcta tgaggggcgc gtcatccaga
 541 ttgtgctaat gcgggcagca gaggagccag tgtctgaggt gaccgtgggt gtgtcggtgc
 601 tggccgagcg ctgcaagaag aacaatggca aggctgagtt ctggctggac ctgcagcctc
 661 aggccaaggt gttgatgtct gttcagtatt tcctggagga cgtggattgc aaacagtcta
 721 tgcgcagtga ggacgaggcc aagttcccaa cgatgaaccg ccgcggagcc atcaaacagg
 781 ccaaaatcca ctacatcaag aaccatgagt ttatcgccac cttctttggg caacccacct
 841 tetgttetgt gtgcaaagae tttgtetggg geeteaacaa gcaaggetae aaatgeagge
 901 aatgtaacgc tgccatccac aagaaatgca tcgacaagat catcggcaga tgcactggca
 961 ccgcggccaa cagccgggac actatattcc agaaagaacg cttcaacatc gacatgccgc
1021 accgcttcaa ggttcacaac tacatgagcc ccaccttctg tgaccactgc ggcagcctgc
1081 tctggggact ggtgaagcag ggattaaagt gtgaagactg cggcatgaat gtgcaccata
1141 aatgccggga gaaggtggcc aacctctgcg gcatcaacca gaagcttttg gctgaggcct
1201 tgaaccaagt cacccagaga gcctcccgga gatcagactc agcctcctca gagcctgttg
1261 ggatatatca gggtttcgag aagaagaccg gagttgctgg ggaggacatg caagacaaca
1321 gtgggaccta cggcaagatc tgggagggca gcagcaagtg caacatcaac aacttcatct
1381 tccacaaggt cctgggcaaa ggcagcttcg ggaaggtgct gct
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(2) INFORMATION FOR SEQ ID NO:2982:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2244 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2982:

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1 ctccccgccc cgaccatggt agtgttcaat ggccttctta agatcaaaat ctgcgaggcc
  61 gtgagettga ageceaeage etggtegetg egecatgegg tgggaceeeg geegeagaet
 121 tteetteteg accectacat tgeeteaat gtggacgaet egegeategg ccaaaeggee
 181 accaagcaga agaccaacag cccggcctgg cacgacgagt tcgtcaccga tgtgtgcaac
 241 ggacgcaaga tcgagctggc tgtctttcac gatgccccca taggctacga cgacttcgtg
 301 gccaactgca ccatccagtt tgaggagctg ctgcagaacg ggagccgcca cttcgaggac
 361 tggattgatc tggagccaga aggaagagtg tatgtgatca tcgatctctc agggtcgtcg
 421 ggtgaagccc ctaaagacaa tgaagagcgt gtgttcaggg aacgcatgcg gccgaggaag
 481 cggcaggggg ccgtcaggcg cagggtccat caggtcaacg gccacaagtt catggccacc
 541 tatettegge ageceaceta etgeteceat tgeagagaet teatetgggg tgteatagga
 601 aagcagggat accagtgtca agtctgcacc tgcgtggtcc acaagcggtg ccacgagctc
 661 ataatcacaa agtgtgctgg gttaaagaag caggagaccc ccgaccaggt gggctcccag
 721 cggttcagcg tcaacatgcc ccacaagttc ggtatccaca actacaaggt ccctaccttc
 781 tgcgatcact gtgggtccct gctctgggga ctcttgcggc agggtttgca gtgtaaagtc
 841 tgcaaaatga atgttcaccg tcgatgtgag accaacgtgg ctcccaactg tggagtggat
 901 gccagaggaa tcgccaaagt actggccgac ctgggcgtta ccccagacaa aatcaccaac
 961 agcggccaga gaaggaaaaa gctcattgct ggtgccgagt ccccgcagcc tgcttctgga
1021 ageteaceat etgaggaaga tegateeaag teageaceca ceteceettg tgaceaggaa
1141 caccgggcag catcgtctcc tgatggccag ctgatgagcc ccggtgagaa tggcgaagtc
1201 cggcaaggcc aggccaagcg cctgggcctg gatgagttca acttcatcaa ggtgttgggc
1261 aaaggcagct ttggcaaggt catgttggca gaactcaagg gcaaagatga agtatatgct
1321 gtgaaggtct taaagaagga cgtcatcctt caggatgatg acgtggactg cacaatgaca
1381 gagaagagga ttttggctct ggcacggaaa cacccgtacc ttacccaact ctactgctgc
1441 ttccagacca aggaccgcct ctttttcgtc atggaatatg taaatggtgg agacctcatg
1501 tttcagattc agcgctcccg aaaattcgac gagcctcgtt cacggttcta tgctgcagag
1561 gtcacatcgg ccctcatgtt cctccatcag catggagtca tctacaggga tttgaaactg
1621 gacaacatcc ttctggatgc agaaggtcac tgcaagctgg ctgacttcgg gatgtgcaag
1681 gaagggattc tgaatggtgt gacgaccacc acgttctgtg ggactcctga ctacatagct
1741 cctgagatcc tgcaggagtt ggagtatggc ccctccgtgg actggtgggc cctgggggtg
1801 ctgatgtacg agatgatggc tggacagcct ccctttgagg ccgacaatga ggacgaccta
1861 tttgagtcca tcctccatga cgacgtgctg tacccagtct ggctcagcaa ggaggctgtc
1921 agcatcttga aagctttcat gacgaagaat ccccacaagc gcctgggctg tgtggcatcg
1981 cagaatggcg aggacgccat caagcagcac ccattettea aagagattga etgggtgete
2041 ctggagcaga agaagatcaa gccacccttc aaaccacgca ttaaaaccaa aagagacgtc
2101 aataattttg accaagactt tacccgggaa gagccggtac tcacccttgt ggacgaagca
2161 attgtaaagc agatcaacca ggaggaattc aaaggtttct cctactttgg tgaagacctg
2221 atgccctgag agcccactgc agtt
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(2) INFORMATION FOR SEQ ID NO:2983:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 218 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2983:
- 1 agcoggotto tggaaactoo otgtgtgagt gtgagggaat gagtatgaac aaggcacatt
- 61 atgtottact tattgtatta gtttcctgtt gctgctgtag caagttacca ccaatttatg 121 gcttaaagca attcaaattt tttctcttga attcttaaga tcagaagttc taaatgagtc
- 181 taatggggct aaaatcaagg tgttaggcaa aggcagct
- (2) INFORMATION FOR SEQ ID NO:2984:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1830 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2984:

- 1 tgcagctgga gatccgggct cccacagcag atgagatcca cgtaactgtt ggcgaggccc 61 gtaacctaat tootatggac occaatggto tototgatoo otatgtgaaa otgaagotoa 121 tcccagaccc tcggaacctg acgaaacaga agacccgaac ggtgaaagcc acgctaaacc 181 ctgtgtggaa tgagaccttt gtgttcaacc tgaagccagg ggatgtggag cgccggctca 241 gcgtggaggt gtgggactgg gaccggacct cccgcaacga cttcatgggg gccatgtcct 301 ttggcgtctc ggagctgctc aaggcgcccg tggatggctg gtacaagtta ctgaaccagg 361 aggagggcga gtattacaat gtgccggtgg ccgatgctga caactgcagc ctcctccaga 421 agtttgaggc ttgtaactac cccctggaat tgtatgagcg ggtgcggatg ggcccctctt 481 cctctcccat cccctcccct tcccctagtc ccaccgaccc caagcgctgc ttcttcgggg 541 cgagtccagg acgcctgcac atctccgact tcagcttcct catggttcta ggaaaaggca 601 gttttgggaa ggtgatgctg gccgagcgca ggggctctga tgagctctac gccatcaaga 661 tcttgaaaaa ggacgtgatc gtccaggacg acgatgtgga ctgcacgctg gtggagaaac 781 actccacctt ccagaccccg gaccgcctgt atttcgtgat ggagtacgtc accgggggag 841 acttgatgta ccacattcaa cagctgggca agtttaagga gccccatgca gcgttctacg 901 cggcagaaat cgctatcggc ctcttcttcc ttcacaatca gggcatcatc tacagggacc 961 tgaagctgga caatgtgatg ctggatgctg agggacacat caagatcact gactttggca 1021 tgtgtaagga gaacgtette eeegggaega caaceegeae ettetgeggg aeeeeggaet 1081 acatagecee ggagateatt geetaeeage eetatgggaa gtetgtegat tggtggteet 1141 ttggagttct gctgtatgag atgttggcag gacagcctcc cttcgatggg gaggacgagg 1201 aggagetgtt teaggeeate atggaacaaa etgteaceta eeceaagteg ettteeeggg 1261 aagccgtggc catctgcaag gggttcctga ccaagcaccc agggaagcgc ctgggctcag 1321 ggcctgatgg ggaacctacc atccgtgcac atggcttttt ccgctggatt gactgggagc 1381 ggctggaacg attggagatc ccgcctcctt tcagaccccg cccgtgtggc cgcagcggcg 1441 agaactttga caagttcttc acgcgggcgg cgccagcgct gacccctcca gaccgcctag 1501 tcctggccag catcgaccag gccgatttcc agggcttcac ctacgtgaac cccgacttcg 1561 tgcacccgga tgcccgcagc cccaccagcc cagtgcctgt gcccgtcatg taatctcacc 1621 cgccgccact aggtgtcccc aacgtcccct ccgccgtgcc ggcggcagcc ccacttcacc 1681 cccaacttca ccacccctg tcccattcta gatcctgcac cccagcattc cagctctgcc 1741 cccgcgggtt ctagacgccc ctcccaagcg ttcctggcct tctgaactcc atacagcctc
- (2) INFORMATION FOR SEQ ID NO:2985:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2196 base pairs

1801 tacagoogto cogogttoaa gacttgagog

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2985:
- 1 cggggtgtct tgggcccggg cggctgtaga ggcggcggcg cctacgggca gtgggaggag
- 61 ccgcgcggtt ccggctgctc cggcgaggcg accettgggt cggcgctgcg ggcaggtggc
- 121 aggtaggtgg cggacggccg cggttctccg gcaagcgcag gcggcggagt cccccacggc
- 181 gcccgaagcg ccccccgca cccccggcct ccagcgttga ggcgggggag tgaggagatg
- 241 ccgacccaga gggacagcag caccatgtcc cacacggtcg caggcggcgg cagcggggac
- 301 cattcccacc aggtccgggt gaaagcctac taccgcgggg atatcatgat aacacatttt
- 361 gaaccttcca tctcctttga gggcctttgc aatgaggttc gagacatgtg ttcttttgac
- 421 aacgaacagc tcttcaccat gaaatggata gatgaggaag gagacccgtg tacagtatca 481 tctcagttgg agttagaaga agcctttaga ctttatgagc taaacaagga ttctgaactc
- 541 ttgattcatg tgttcccttg tgtaccagaa cgtcctggga tgccttgtcc aggagaagat

601 aaatccatct accgtagagg tgcacgccgc tggagaaagc tttattgtgc caatggccac 661 actttccaag ccaagcgttt caacaggcgt gctcactgtg ccatctgcac agaccgaata 721 tggggacttg gacgccaagg atataagtgc atcaactgca aactcttggt tcataagaag 781 tgccataaac tcgtcacaat tgaatgtggg cggcattctt tgccacagga accagtgatg 841 cccatggatc agtcatccat gcattctgac catgcacaga cagtaattcc atataatcct 901 tcaagtcatg agagtttgga tcaagttggt gaagaaaaag aggcaatgaa caccagggaa 961 agtggcaaag cttcatccag tctaggtctt caggattttg atttgctccg ggtaatagga 1021 agaggaagtt atgccaaagt actgttggtt cgattaaaaa aaacagatcg tatttatgca 1081 atgaaagttg tgaaaaaaga gcttgttaat gatgatgagg atattgattg ggtacagaca 1141 gagaagcatg tgtttgagca ggcatccaat catcetttee ttgttggget gcattettge 1201 tttcagacag aaagcagatt gttctttgtt atagagtatg taaatggagg agacctaatg 1261 tttcatatgc agcgacaaag aaaacttcct gaagaacatg ccagatttta ctctgcagaa 1321 atcagtctag cattaaatta tcttcatgag cgagggataa tttatagaga tttgaaactg 1381 gacaatgtat tactggactc tgaaggccac attaaactca ctgactacgg catgtgtaag 1441 gaaggattac ggccaggaga tacaaccagc actttctgtg gtactcctaa ttacattgct 1501 cctgaaattt taagaggaga agattatggt ttcagtgttg actggtgggc tcttggagtg 1561 ctcatgtttg agatgatggc aggaaggtct ccatttgata ttgttgggag ctccgataac 1621 cctgaccaga acacagagga ttatctcttc caagttattt tggaaaaaca aattcgcata 1681 ccacgttctc tgtctgtaaa agctgcaagt gttctgaaga gttttcttaa taaggaccct 1741 aaggaacgat tgggttgtca tcctcaaaca ggatttgctg atattcaggg acacccgttc 1801 ttccgaaatg ttgattggga tatgatggag caaaaacagg tggtacctcc ctttaaacca 1861 aatatttctg gggaatttgg tttggacaac tttgattctc agtttactaa tgaacctgtc 1921 cagctcactc cagatgacga tgacattgtg aggaagattg atcagtctga atttgaaggt 1981 ttigagtata tcaatcetet tttgatgtet geagaagaat gtgtetgate eteattttte 2041 aaccatgtat totactcatg ttgccattta atgcatggat aaacttgctg caagcctgga 2101 tacaattaac cattttatat ttgccaccta caaaaaaaca cccaatatct tctcttgtag 2161 actatatgaa tcaattatta catctcgacc cggaat

(2) INFORMATION FOR SEQ ID NO:2986:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2389 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2986:

1 gaatteggae ggaggaggea gaatggeeag tegaggggeg ettaggegtg geettteece 61 agggetgeet egaeteetge acetgteeeg agggetggee tgagaeggga eteeeggtte 121 tecegetgeg aageaggeee eeeggggeeg gggeagegge geeggeatgt egtetggeae 181 catgaagttc aatggctatt tgagggtccg catcggtgag gcagtggggc tgcagcccac 241 ccgctggtcc ctgcgccact cgctcttcaa gaagggccac cagctgctgg accectatct 301 gacggtgagc gtggaccagg tgcgcgtggg ccagaccagc accaagcaga agaccaacaa 361 acccacgtac aacgaggagt tttgcgctaa cgtcaccgac ggcggccacc tcgagttggc 421 cgtcttccac gagacccccc tgggctacga cttcgtggcc aactgcaccc tgcagttcca 481 ggagetegte ggeaegaeeg gegeetegga eacettegag ggttgggtgg atetegagee 541 agaggggaaa gtatttgtgg taataaccct taccgggagt ttcactgaag ctactctcca 601 gagagaccgg atcttcaaac attttaccag gaagcgccaa agggctatgc gaaggcgagt 661 ccaccagate aatggacaca agttcatgge cacgtatetg aggcageeca cetaetgete 721 tcactgcagg gagtttatct ggggagtgtt tgggaaacag ggttatcagt gccaagtgtg 781 cacctgtgtc gtccataaac gctgccatca tctaattgtt acagcctgta cttgccaaaa 841 caatattaac aaagtggatt caaagattgc agaacagagg ttcgggatca acatcccaca 901 caagttcagc atccacaact acaaagtgcc aacattctgc gatcactgtg gctcactgct 961 ctggggaata atgcgacaag gacttcagtg taaaatatgt aaaatgaatg tgcatattcg 1021 atgtcaagcg aacgtggccc ctaactgtgg ggtaaatgcg gtggaacttg ccaagaccct 1081 ggcagggatg ggtctccaac ccggaaatat ttctccaacc tcgaaactcg tttccagatc 1141 gaccctaaga cgacagggaa aggagagcag caaagaagga aatgggattg gggttaattc 1201 ttccaaccga cttggtatcg acaactttga gttcatccga gtgttgggga aggggagttt 1261 tgggaaggtg atgcttgcaa gagtaaaaga aacaggagac ctctatgctg tgaaggtgct 1321 gaagaaggac gtgattctgc tggatgatga tgtggaatgc accatgaccg agaaaaggat 1381 cctgtctctg gcccgcaatc accccttcct cactcagttg ttctgctgct ttcagacccc 1441 cgatcgtctg ttttttgtga tggagtttgt gaatgggggt gacttgatgt tccacattca 1501 gaagtetegt egttttgatg aageaegage tegettetat getgeagaaa teatttegge 1561 tctcatgttc ctccatgata aaggaatcat ctatagagat ctgaaactgg acaatgtcct 1621 gttggaccac gagggtcact gtaaactggc agacttcgga atgtgcaagg aggggatttg 1681 caatggtgtc accacggcca cattctgtgg cacgccagac tatatcgctc cagagatcct 1741 ccaggaaatg ctgtacgggc ctgcagtaga ctggtgggca atgggcgtgt tgctctatga 1801 gatgctctgt ggtcacgcgc cttttgaggc agagaatgaa gatgacctct ttgaggccat 1861 actgaatgat gaggtggtct accctacctg gctccatgaa gatgccacag ggatcctaaa 1921 atctttcatg accaagaacc ccaccatgcg cttgggcagc ctgactcagg gaggcgagca

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1981 cgccatcttg agacatcctt tttttaagga aatcgactgg gcccagctga accatcgcca 2041 aatagaaccg cctttcagac ccagaatcaa atcccgagaa gatgtcagta attttgaccc 2101 tgacttcata aaggaagagc cagttttaac tccaattgat gagggacatc ttccaatgat 2161 taaccaggat gagtttagaa acttttccta tgtgtctcca gaattgcaac catagcctta 2221 tggggagtga gagagaggc acgagaaccc aaaggaatag agattctcca ggaatttcct 2281 ctatcggacc ttcccagcat cagccttaga acaagaacct taccttcaag gagcaagtga 2341 agaactctgt cgaaggatgg aactttcaga tatcaactat ttagagtcc
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- (2) INFORMATION FOR SEQ ID NO:2987:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3742 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2987:

1 gaatteette teteeteete etegecette teetegeeet eeteeteete etegecetee 61 cctcccgatc ctcatccct tgccctcccc cagcccaggg acttttccgg aaagttttta 121 ttttccgtct gggctctcgg agaaagaagc tcctggctca gcggctgcaa aactttcctg 181 ctgccgcgcc gccagccccc gccctccgct gcccggccct gcgccccgcc gagcgatgag 241 cgcccctccg gtcctgcggc cgcccagtcc gctgctgccc gtggcggcgg cagctgccgc 301 ageggeegee geactggtee cagggteegg geeegggeee gegeegttet tggeteetgt 361 cgcggccccg gtcgggggca tctcgttcca tctgcagatc ggcctgagcc gtgagccggt 421 gctgctgctg caggactcgt ccggggacta cagcctggcg cacgtccgcg agatggcttg 481 ctccattgtc gaccagaagt tccctgaatg tggtttctac ggaatgtatg ataagatcct 541 gctttttcgc catgacccta cctctgaaaa catccttcag ctggtgaaag cggccagtga 601 tatccaggaa ggcgatctta ttgaagtggt cttgtcacgt tccgccacct ttgaagactt 661 tcagattcgt ccccacgctc tctttgttca ttcatacaga gctccagctt tctgtgatca 721 ctgtggagaa atgctgtggg ggctggtacg tcaaggtctt aaatgtgaag ggtgtggtct 781 gaattaccat aagagatgtg catttaaaat acccaacaat tgcagcggtg tgaggcggag 841 aaggetetea aaegttteee teaetggggt cageaceate egcacateat etgetgaaet 901 ctctacaagt gcccctgatg agccccttct gcaaaaatca ccatcagagt cgtttattgg 961 tcgagagaag aggtcaaatt ctcaatcata cattggacga ccaattcacc ttgacaagat 1021 tttgatgtct aaagttaaag tgccgcacac atttgtcatc cactcctaca cccggcccac 1081 agtgtgccag tactgcaaga agcttctgaa ggggcttttc aggcagggct tgcagtgcaa 1141 agattgcaga ttcaactgcc ataaacgttg tgcaccgaaa gtaccaaaca actgccttgg 1201 cgaagtgacc attaatggag atttgcttag ccctggggca gagtctgatg tggtcatgga 1261 agaagggagt gatgacaatg atagtgaaag gaacagtggg ctcatggatg atatggaaga 1321 agcaatggtc caagatgcag agatggcaat ggcagagtgc cagaacgaca gtggcgagat 1381 gcaagatcca gacccagacc acgaggacgc caacagaacc atcagtccat caacaagcaa 1441 caatatccca ctcatgaggg tagtgcagtc tgtcaaacac acgaagagga aaagcagcac 1501 agtcatgaaa gaaggatgga tggtccacta caccagcaag gacacgctgc ggaaacggca 1561 ctattggaga ttggatagca aatgtattac cctctttcag aatgacacag gaagcaggta 1621 ctacaaggaa attcctttat ctgaaatttt gtctctggaa ccagtaaaaa cttcagcttt 1681 aattoctaat ggggccaatc ctcattgttt cgaaatcact acggcaaatg tagtgtatta 1741 tgtgggagaa aatgtggtca atccttccag cccatcacca aataacagtg ttctcaccag 1801 tggcgttggt gcagatgtgg ccaggatgtg ggagatagcc atccagcatg cccttatgcc 1861 cgtcattccc aagggctcct ccgtgggtac aggaaccaac ttgcacagag atatctctgt 1921 gagtatttca gtatcaaatt gccagattca agaaaatgtg gacatcagca cagtatatca 1981 gatttttcct gatgaagtac tgggttctgg acagtttgga attgtttatg gaggaaaaca 2041 tcgtaaaaca ggaagagatg tagctattaa aatcattgac aaattacgat ttccaacaaa 2101 acaaqaaaqc caqcttcgta atgaggttgc aattctacag aaccttcatc accctggtgt 2161 tgtaaatttg gagtgtatgt ttgagacgcc tgaaagagtg tttgttgtta tggaaaaact 2221 ccatggagac atgctggaaa tgatcttgtc aagtgaaaag ggcaggttgc cagagcacat 2281 aacgaagttt ttaattactc agatactcgt ggctttgcgg caccttcatt ttaaaaaatat 2341 cgttcactgt gacctcaaac cagaaaatgt gttgctagcc tcagctgatc cttttcctca 2401 ggtgaaactt tgtgattttg gttttgcccg gatcattgga gagaagtctt tccggaggtc 2461 agtggtgggt acccccgctt acctggctcc tgaggtccta aggaacaagg gctacaatcg 2521 ctctctagac atgtggtctg ttggggtcat catctatgta agcctaagcg gcacattccc 2581 atttaatgaa gatgaagaca tacacgacca aattcagaat gcagctttca tgtatccacc 2641 aaatccctgg aaggaaatat ctcatgaagc cattgatctt atcaacaatt tgctgcaagt 2701 aaaaatgaga aagcgctaca gtgtggataa gaccttgagc cacccttggc tacaggacta 2761 tcagacctgg ttagatttgc gagagctgga atgcaaaatc ggggagcgct acatcaccca 2821 tgaaagtgat gacctgaggt gggagaagta tgcaggcgag cagcggctgc agtaccccac 2881 acacctgatc aatccaagtg ctagccacag tgacactcct gagactgaag aaacagaaat 2941 gaaagccctc ggtgagcgtg tcagcatcct ctgagttcca tctcctataa tctgtcaaaa 3001 cactgtggaa ctaataaata catacggtca ggtttaacat ttgccttgca gaactgccat 3061 tattttctgt cagatgagaa caaagctgtt aaactgttag cactgttgat gtatctgagt 3121 tqccaaqaca aatcaacaga agcatttgta ttttgtgtga ccaactgtgt tgtattaaca

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3181 aaagttccct gaaacacgaa acttgttatt gtgaatgatt catgttatat ttaatgcatt 3241 aaacctgtct ccactgtgcc tttgcaaatc agtgttttc ttactggagc ttcattttgg 3301 taagagacag aatgtatctg tgaagtagtt ctgtttggtg tgtcccattg gtgttgtcat 3361 tgtaaacaaa ctcttgaaga gtcgattatt tccagtgttc tatgaacaac tccaaaaccc 3421 atgtgggaaa aaaatgaatg aggagggtag ggaataaaat cctaagacac aaatgcatga 3481 acaagtttta atgtatagtt ttgaatcctt tgcctgcctg gtgtgcctca gtatatttaa 3541 actcaagaca atgcacctag ctgtgcaaga cctagtgctc ttaagcctaa atgccttaga 3601 aatgtaaact gccatatata acagatacat ttccctcttt cttataatac tctgttgtac 3661 tatggaaaat cagctgctca gcaacctttc acctttgtgt attttcaat aataaaaaat 3721 attcttgtca aaaaaaaaaa aa
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- (2) INFORMATION FOR SEQ ID NO:2988:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2705 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2988:
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- (2) INFORMATION FOR SEQ ID NO:2989:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1779 base pairs

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(B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
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     (A) LENGTH: 239 base pairs
     (B) TYPE: nucleic acid
     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
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     (C) STRANDEDNESS: single
     (D) TOPOLOGY: linear
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- (2) INFORMATION FOR SEQ ID NO:2992:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1649 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2992:
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- (2) INFORMATION FOR SEQ ID NO:2993:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 703 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (xi)SEQUENCE DESCRIPTION: SEQ ID NO:2993:
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- (2) INFORMATION FOR SEQ ID NO:2994:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3409 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2994:
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2701 tgggaggccg aggcaggtac atcacctgag gtcaggagtt caagactagc ctggccaaca 2761 tagtgaaacc ctgtctctac taaaaataca aagattagtc aggtgtggtg gcacatgcct 2821 gtagtccag ctactggga ggctgaggca ggagaattgc ttgaacccgg gaagcggagg 2881 gaggttgcag tgagctgaga tcacgctact gcactccagc ctgggtgaca gagtaagact 2941 ccgtctcaaa aaaaaaaaa aagattcaat gacccttgtt aaagcatggt aaggaagact 3001 ttgttcaagg ggagtgggac tctctcaatc actgcaggga ctgcaggtat gggatttgc 3061 agtggggca ttgggatactg actatgagta cagcagggc aagtgggagc tggataccag 3121 ggaacagggt tggatatctg cagctggaaa attaccaaga ggaaacatca ggggaaggg 3181 aattctggct aaactgactg ctggggatgg gttctcggtc attttctaca ctgacctaac 3241 aggattcata ctggaggcag gccagggtgc tcagacatca ccggggggat ggtggcagat 3301 gaggaacgtg atcagatata ggaggtgatc agctaggttc tggtagacc tggtagagg 3361 tgggggagg gttgttgcta agctgactta gcagagttct tgttagaac
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- (2) INFORMATION FOR SEQ ID NO:2995:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3409 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2995:

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(2) INFORMATION FOR SEQ ID NO:2996:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9170 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2996:

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 241 aaatgetgag gaacageact gacaceacte etetgaetgg geetggaace eetgagteta
 301 ccactgtgga gcctgctgca aggcgttcta ctggcctgga tgcaggaggg gcagtcacag
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1441	ttagaaagaa	cccacctcca	caaactctcc	tagaccaccc	ctgagtgccc	agaccccaat
1561	ccacagetet	gggcttcctc	ggagacccct	aggataga	atcttcaggg	aaggaactct
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1681	ctttcctccc	tccgcggatg	aagcccagcc	acatttcagc	cgaggtccaa	ggcaggaggc
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2221	actgcagtat	ttcaaggttt	caaggetge	teetteagge	agectteecg	gaatteteea
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7142 gccaatgggg gcctgtccaa ggccaagagc ccgggcctga cgccagagcc cagggaggac
7202 cgtgaggggg atgacctcac cctgcacagc ttcctccctt agctcactct gccatctgtt
7262 ttggcaagac cccacctcca cgggctctcc tgggccaccc ctgagtgccc agaccccaat
7322 ccacagetet gggetteete ggagaeeeet ggggatgggg atetteaggg aaggaaetet
7382 ggccacccaa acaggacaag agcagcctgg ggccaagcag acgggcaagt ggagccacct
7442 ctttcctccc tccgcggatg aagcccagcc acatttcagc cgaggtccaa ggcaggaggc
7502 catttacttg agacagattc teteettttt eetgteecee atettetetg ggteeeteta
7562 acatetecca tggetetece egettetect ggteaetgga gteteetece catgtaceca
7682 ggtcaccaaa caggaagtgg acattctaag ggaggagtac tgaagagtga cggacttctg
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7802 gggaaaaccc agggtgaggt tcagcctgtg agggctggga tgggtttcgt gggcccaaag
7862 ggcagacctt tctttgggac tgtgtggacc aaggagcttc catctagtga caagtgaccc
7922 ccagetateg cetettgeet teceetgtgg ceaettteea gggtggaete tgtettgtte
7982 actgcagtat cccaactgca ggtccagtgc aggcaataaa tatgtgatgg acaaaacgat
8042 agcggaatcc ttcaaggttt caaggctgtc tccttcaggc agccttcccg gaattctcca
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8162 ggaagcctct ttcatgggct gttaggttga cttcagtttt gcctcttgga caacaggggg
8222 tcttgtacat ccttgggtga ccaggaaaag ttcaggctat ggggggccaa agggagggct
8282 gccccttccc caccagtgac cactttattc cacttcctcc attacccagt tttggcccac
8342 agagtttggt ccccccaaa cctcggacca atatccctct aaacatcaat ctatcctcct
8402 gttaaagaaa aaaaaaaatg ggactgggag cagtggctca tgcctgtaat cccagcactt
8462 tgggaggccg aggcaggtac atcacctgag gtcaggagtt caagactagc ctggccaaca
8522 tagtgaaacc ctgtctctac taaaaataca aagattagtc aggtgtggtg gcacatgcct
8582 gtagtcccag ctactgggga ggctgaggca ggagaattgc ttgaacccgg gaagcggagg
8642 gaggttgcag tgagctgaga tcacgctact gcactccagc ctgggtgaca gagtaagact
8702 ccgtctcaaa aaaaaaaaaa aagattcaat gacccttgtt aaagcatggt aaggaagact
8762 ttgttcaagg ggagtgggac tctctcaatc actgcaggga ctgcagctat gggattttgc
8822 agtgggggca tttgggctca actatgagta cagcaggggc aagtgggagc tgatagccag
8882 ggaacagggt tggatatctg cagctggaaa attaccaaga ggaaacatca ggggaagggg
8942 aattctggct aaactgactg ctggggatgg gttctcggtc attttctaca ctgacctaac
9002 aggattcata ctggaggcag gccagggtgc tcagacatca ccggggggat ggtggcagat
9062 gaggaacgtg atcagatata ggaggtgatc agatatggga ggtgatcaga tatggagtgg
9122 tggggggagg gttgttgcta agctgactta gcagagttct tgttagaac
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(2) INFORMATION FOR SEQ ID NO:2997:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1830 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2997:

1 cctgcctgca cggcacagga gagcaaactt ctacagacag accaaggctt ccatttgctg 61 ctgacacatg gaactgaggt gaaattgtgc tccatgattt tacagatttc ataacgttta 121 agagacggga ctcaggtcat caaaatgaaa gccctcatct ttgcagctgc tggcctcctg 181 cttctgttgc ccactttttg tcagagtggc atggaaaatg atacaaacaa cttggcaaag 241 ccaaccttac ccattaagac ctttcgtgga gctcccccaa attcttttga agagttcccc 301 ttttctgcct tggaaggctg gacaggagcc acgattactg taaaaattaa gtgccctgaa 361 gaaagtgett cacateteea tgtgaaaaat getaceatgg ggtacetgae cageteetta 421 agtactaaac tgatacctgc catctacctc ctggtgtttg tagttggtgt cccggccaat 481 gctgtgaccc tgtggatgct tttcttcagg accagatcca tctgtaccac tgtattctac 541 accaacctgg ccattgcaga ttttctttt tgtgttacat tgccctttaa gatagcttat 601 catctcaatg ggaacaactg ggtatttgga gaggtcctgt gccgggccac cacagtcatc 661 ttctatggca acatgtactg ctccattctg ctccttgcct gcatcagcat caaccgctac 721 ctggccatcg tccatccttt cacctaccgg ggcctgccca agcacaccta tgccttggta 781 acatgtggac tggtgtgggc aacagttttc ttatatatgc tgccattttt catactgaag 841 caggaatatt atcttgttca gccagacatc accacctgcc atgatgttca caacacttgc 901 gagteeteat etecetteea aetetattae tteateteet tggeattett tggattetta 961 attccatttg tgcttatcat ctactgctat gcagccatca tccggacact taatgcatac 1021 gatcatagat ggttgtggta tgttaaggcg agtctcctca tccttgtgat ttttaccatt

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1081 tgctttgctc caagcaatat tattcttatt attcaccatg ctaactacta ctacaacaac
1141 actgatggct tatattttat atatctcata gctttgtgcc tgggtagtct taatagttgc
1201 ttagatccat tcctttattt tctcatgtca aaaaccagaa atcactccac tgcttacctt
1261 acaaaatagt gaaatgatct tagagaacaa ggacagccat cacagagaac gtctgttttc
1321 aagaacaaca taagcatagt gcaaggagct ccatttccga gctcctaaga aatatgcttc
1381 aaaggtcaaa cattacaaaa gcattagtag tttgtttgtt tgtttttgag actgagtctc
1441 actitateae ceagactgge gtgeagtgge actatettgg eteattgeaa cetetgeete
1501 ccaggtcagc ctcccaagta gctgggatta caccaccatg cccagctact aaaaatactt
1561 gtatttttag tagagacggg gtttcaccat gttgaccagg ctggtcttga actcctgacc
1621 tcaagtgatc ttccggcctc agcctcccaa agtgctggat tacaggcgtg agccactgag
1681 ccagccagca ttagtaattt ttaaaaacac tttatcagta ttttaaaaat gttaatgcag
1741 gagaaaagat atcacaactc tatggaaaat gacatttcca tttgccttat tgctacttca
1801 agctctttaa atcaccatct tccctatttc
(2) INFORMATION FOR SEQ ID NO:2998:
  (i) SEQUENCE CHARACTERISTICS:
     (A) LENGTH: 1534 base pairs
     (B) TYPE: nucleic acid
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- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2998:
- 1 tcatgtgggg gcgactgctc ctgtggcccc tggtgctggg gttcagcctg tctgqcqca 61 cccagacccc cagcgtctac gacgagagcg ggagcaccgg aggtggtgat gacagcacgc 121 cctcaatcct gcctgccccc cgcggctacc caggccaagt ctgtgccaat gacagtgaca 181 ccctggagct cccggacagc tcacgggcac tgcttctggg ctgggtgccc accaggctgg 241 tgcccgccct ctatgggctg gtcctggtgg tggggctgcc ggccaatggg ctggcgctgt 301 gggtgctggc cacgcaggca cctcggctgc cctccaccat gctgctgatg aacctcgcga 361 ctgctgacct cctgctggcc ctggcgctgc ccccgcggat cgcctaccac ctgcgtggcc 421 agcgctggcc cttcggggag gccgcctgcc gcctggccac ggccgcactc tatggtcaca 481 tgtatggete agtgetgetg etggeegeeg teageetgga tegetaeetg geeetggtge 541 acceptage ggcccgcgcc ctgcgtggcc ggcgcctggc ccttggactc tgcatgqctq 601 cttggctcat ggcggccgcc ctggcactgc ccctqacact qcaqcqqcaq accttccqqc 661 tggcgcgctc cgatcgcgtg ctctgccatg acqcqctqcc cctqqacqca caqqcctccc 721 actggcaacc ggccttcacc tgcctggcgc tgttgggctg tttcctgccc ctgctggcca 781 tgctgctgtg ctacggggcc accctgcaca cgctggcggc cagcggccgg cgctacggcc 841 acgcgctgag gctgaccgca gtggtgctgg cctccgccgt ggccttcttc gtgcccagca 901 acctgctgct gctgctgcat tactcggacc cgagccccag cgcctggggc aacctctatg 961 gtgcctacgt gcccagcctg gcgctgagca ccctcaacag ctgcgtggat cccttcatct 1021 actactacgt gtcggccgag ttcagggaca aggtgcgggc agggctcttc caacggtcgc 1081 cgggggacac cgtggcctcc aaggcctctg cggaaggggg cagccggggc atgggcaccc 1141 actcctcttt gctccagtga cacaaagtgg ggaaggctgt actgggtcga acagggtccc 1201 ttcccccact tcacgtcctt cctgggacct cagaatgtga ccttatttgg aaatagggtt 1261 gttacaactg tcactagcag aggtcacttt ggagaagggt gggccttaca tccagtgtgg 1321 gtggtgtcct cataagataa ggagaggcca ggcctggtgg ctcacgcctg taatcccagc 1381 actttaagag gccaaggcgg atggatcact tgagcccagg agttcaacac cagcctgagc 1441 aacatggtaa aaccccatct ctaccaaaaa tacaaaaatt agctgggctt ggtggctggc 1501 gcctgtaatc ccagctactc angagactga ggca

(2) INFORMATION FOR SEQ ID NO:2999:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3182 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2999:
- 1 cgcacccggg
- 11 cccgcaggcc agaatcaaaa gcaacaaatg ccaccttaga tccccggtca tttcttcta 71 ggaaccccaa tgataaatat gaaccatttt gggaggatga ggagaaaaat gaaagtgggt
- 131 taactgaata cagattagtc tccatcaata aaagcagtcc tcttcaaaaa caacttcctg
- 191 cattcatctc agaagatgcc tccggatatt tgaccagctc ctggctgaca ctctttgtcc
- 251 catctgtgta caccggagtg tttgtagtca gcctcccact aaacatcatg gccatcgttg
- 311 tgttcatcct gaaaatgaag gtcaagaagc cggcggtggt gtacatgctg cacctggcca
- 371 cggcagatgt gctgtttgtg tctgtgctcc cctttaagat cagctattac ttttccggca 431 gigatiggea gittigggict gaatigtgte gettegteae igeageatti tacigtaaca
- 491 tgtacgcctc tatcttgctc atgacagtca taagcattga ccggtttctg gctgtggtgt

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551 atcccatgca gtccctctcc tggcgtactc tgggaagggc ttccttcact tgtctggcca
  611 tctgggcttt ggccatcgca ggggtagtgc ctctcgtcct caaggagcaa accatccagg
  671 tgcccgggct caacatcact acctgtcatg atgtgctcaa tgaaaccctg ctcgaaggct
  731 actatgeeta etaettetea geettetetg etgtettett tittgtgeeg etgateattt
  791 ccacggtctg ttatgtgtct atcattcgat gtcttagctc ttccgcagtt gccaaccgca
  851 gcaagaagtc ccgggctttg ttcctgtcag ctgctgtttt ctgcatcttc atcatttgct
  911 teggacecae aaacgteete etgattgege attacteatt cettteteae aetteeaeca
  971 cagaggetge ctactttgee taceteetet gtgtetgtgt cageageata agetegtgea
 1031 tegacecet aatttactat taegetteet etgagtgeea gaggtaegte taeagtatet
 1091 tatgctgcaa agaaagttcc gatcccagca gttataacag cagtgggcag ttgatggcaa
 1151 gtaaaatgga tacctgctct agtaacctga ataacagcat atacaaaaag ctgttaactt
 1211 aggaaaaggg actgctggga ggttaaaaagg aaaagtttat aaaagtgaat aacctgagga
1271 ttctattagt ccccacccaa actttattga ttcacctcct aaaacaacag atgtacgact
1331 tgcatacctg ctttttatgg gagctgtcaa gcatgtattt ttgtcaatta ccagaaagat
1391 aacaggacga gatgacggtg ttattccaag ggaatattgc caatgctaca gtaataaatg
1451 aatgtcactt ctggatatag ctaggtgaca tatacatact tacatgtgtg tatatgtaga
1511 tgtatgcaca cacatatatt atttgcagtg cagtatagaa taggcacttt aaaacactct
1571 ttccccgcac cccagcaatt atgaaaataa tctctgattc cctgatttaa tatgcaaagt
1631 ctaggttggt agagtttagc cctgaacatt tcatggtgtt catcaacagt gagagactcc
1691 atagtttggg citgtaccac ttttgcaaat aagtgtattt tgaaattgtt tgacggcaag
1751 gtttaagtta ttaagaggta agacttagta ctatctgtgc gtagaagttc tagtgttttc
1811 aattttaaac atatccaagt ttgaattcct aaaattatgg aaacagatga aaagcctctg
1871 ttttgatatg ggtagtattt tttacatttt acacactgta cacataagcc aaaactgagc
1931 ataagteete tagtgaatgt aggetggett teagagtagg etatteetga gagetgeatg
1991 tgtccgcccc cgatggagga ctccaggcag cagacacatg ccagggccat gtcagacaca
2051 gattggccag aaacctteet getgageete acageagtga gactggggee actaeatttg
2111 ctccatcctc ctgggattgg ctgtgaactg atcatgttta tgagaaactg gcaaagcaga
2171 atgtgatatc ctaggaggta atgaccatga aagacttete tacccatett aaaaacaacg
2231 aaagaaggca tggacttctg gatgcccatc cactgggtgt aaacacatct agtagttgtt
2291 ctgaaatgtc agttctgata tggaagcacc cattatgcgc tgtggccact ccaataggtg
2351 ctgagtgtac agagtggaat aagacagaga cctgccctca agagcaaagt agatcatgca
2411 tagagtgtga tgtatgtgta ataaatatgt ttcacacaaa caaggcctgt cagctaaaga
2471 agtttgaaca tttgggttac tatttcttgt ggttataact taatgaaaac aatgcagtac
2531 aggacatata ttttttaaaa taagtctgat ttaattgggc actatttatt tacaaatgtt
2591 tigctcaata gattgctcaa atcaggtttt cttttaagaa tcaatcatgt cagtctgctt
2651 agaaataaca gaagaaaata gaattgacat tgaaatctag gaaaattatt ctataatttc
2711 catttactta agacttaatg agactttaaa agcatttttt aacctcctaa gtatcaagta
2771 tagaaaatct tcatggaatt cacaaagtaa tttggaaatt aggttgaaac atatctctta
2831 tettacgaaa aaatggtage attttaaaca aaatagaaag ttgcaaggca aatgtttatt
2891 taaaagagca ggccaggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggctga
2951 ggcgggtgga tcacgaggtc aggagatcga gaccatcctg gctaacacgg tgaaacccgt
3011 ctctactaaa aatgcaaaaa aaattagccg ggcgtggtgg caggcacctg tagtcccagc
3071 tactcgggag gctgaggcag gagactggcg tgaacccagg aggcggacct tgtagtgagc
3131 cgagatcgcg ccactgtgct ccagcctggg caacagagca agactccatc tc
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- (2) INFORMATION FOR SEQ ID NO:3000:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6546 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3000:
- 1 cctgcctgca cggcacagga gagcaaactt ctacagacag accaaggctt ccatttgctg
 61 ctgacacatg gaactgaggt gaaattgtgc tccattgattt tacagatttc ataacgttta
 121 agagacggga ctcaggtcat caaaatgaaa gccctcatct ttgcagctgc tggcctcctg
 181 cttctgttgc ccacttttg tcagagtggc atggaaaatg atacaaacaa cttggcaaag
 241 ccaaccttac ccattaagac ctttcgtgga gctccccaa attctttga agagttcccc
 301 ttttctgcct tggaaggctg gacaggagcc acgattactg taaaaattaa gtgccctgaa
 361 gaaagtgctt cacatctcca tgtgaaaaat gctaccatgg ggtacctgac cagctcctta
 421 agtactaaac tgatacctgc catctacctc ctggtgtttg tagttggtgt cccggccaat
 481 gctgtgaccc tgtggatgct tttcttcagg accagatcca tctgtaccac tgtattctac
 541 accaacctgg ccattgcaga ttttctttt tgtgttacat tgccctttaa gatagcttat
 601 catctcaatg ggaacaactg ggtatttgga gaggtcctgt gccgggccac cacagtcatc
 661 tctataggca acatgtactg ctccattctg ctccttgcct gcatcagcat caaccgctac
 721 ctggccatcg tccatcctt cacctaccgg ggcctgccca agcacaccta tgccttggta
 781 acatgtggac tggtgtggc aacagtttc ttatatatgc tgccatttt catactgaag

841	caggaatatt	atcttgttca	gccagacatc	accacctgcc	atgatgttca	caacacttgc
901	gagtcctcat	ctcccttcca	actctattac	ttcatctcct	tggcattctt	tggattctta
961	attccatttg	tgcttatcat	ctactgctat	gcagccatca	tccggacact	taatgcatac
1021	gatcatagat	ggttgtggta	tgttaaggcg	agtetectea	tccttgtgat	ttttaccatt
1081	tgctttgctc	caagcaatat	tattcttatt	attcaccato	ctaactacta	ctacaacaac
1141	actgatggct	tatattttat	atatctcata	actttatacc	taggtagtet	taatagttgc
1201	ttagatccat	tcctttattt	tctcatgtca	aaaaccagaa	atcactccac	tacttacctt
1261	acaaaatagt	gaaatgatct	tagagaacaa	ggacagccat	cacagagaac	atctattttc
1321	aagaacaaca	taagcatagt	gcaaggagct	ccatttccga	gctcctaaga	aatatgcttc
1381	aaaggtcaaa	cattacaaaa	gcattagtag	tttatttatt	tatttttaaa	actgagtete
1441	actttatcac	ccagactggc	gtgcagtggc	actatcttgg	ctcattgcaa	cctctacctc
1501	ccaggtcagc	ctcccaagta	gctgggatta	caccaccatg	cccagctact	aaaaatactt
1561	gtatttttag	tagagacggg	gtttcaccat	gttgaccagg	ctggtcttga	actcctgacc
1621	tcaagtgatc	ttccggcctc	agcctcccaa	agtgctggat	tacaggcgtg	agccactgag
1681	ccagccagca	ttagtaattt	ttaaaaacac	tttatcagta	ttttaaaaat	gttaatgcag
1741	gagaaaagat	atcacaactc	tatggaaaat	gacatttcca	tttqccttat	toctacttca
1801	agctctttaa	atcaccatct	tccctatttc	-	-	J
1831	tcatgtgggg	gcgactgctc	ctgtggcccc	tggtgctggg	gttcagcctg	tctggcggca
1891	cccagacccc	cagcgtctac	gacgagagcg	ggagcaccgg	aggtggtgat	gacagcacgc
1951	cctcaatcct	gcctgccccc	cgcggctacc	caggccaagt	ctgtgccaat	gacagtgaca
2011	ccctggagct	cccggacagc	tcacgggcac	tgcttctggg	ctgggtgccc	accaggetgg
2071	tgcccgccct	ctatgggctg	gtcctggtgg	tggggctgcc	ggccaatggg	ctggcgctgt
2131	gggtgctggc	cacgcaggca	cctcggctgc	cctccaccat	gctgctgatg	aacctcgcga
2191	ctgctgacct	cctgctggcc	ctggcgctgc	ccccgcggat	cgcctaccac	ctgcgtggcc
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481	tgtatggctc	agtgctgctg	ctggccgccg	tcagcctgga	tcgctacctg	gccctggtgc
541	acccgctgcg	ggcccgcgcc	ctgcgtggcc	ggcgcctggc	ccttggactc	tgcatggctg
601	cttggctcat	ggcggccgcc	ctggcactgc	ccctgacact	gcagcggcag	accttccggc
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721	actggcaacc	ggccttcacc	tgcctggcgc	tgttgggctg	tttcctgccc	ctgctggcca
781	tgctgctgtg	ctacggggcc	accctgcaca	cgctggcggc	cagcggccgg	cgctacggcc
841	acgcgctgag	gctgaccgca	gtggtgctgg	cctccgccgt	ggccttcttc	gtgcccagca
901	acctgctgct	gctgctgcat	tactcggacc	cgagccccag	cgcctggggc	aacctctatg
961	gtgcctacgt	gcccagcctg	gcgctgagca	ccctcaacag	ctgcgtggat	cccttcatct
1021	actactacgt	gtcggccgag	ttcagggaca	aggtgcgggc	agggctcttc	caacggtcgc
1141	cgggggacac	cgtggcctcc	aaggcctctg	cggaaggggg	cagccggggc	atgggcaccc
1141	actectett	gctccagtga	cacaaagtgg	ggaaggctgt	actgggtcga	acagggtccc
1201	attacaset	tcacgtcctt	cctgggacct	cagaatgtga	ccttatttgg	aaatagggtt
1201	gttacaactg	tcactagcag	aggtcacttt	ggagaagggt	gggccttaca	tccagtgtgg
1321	actttaaca	cataagataa	ggagaggcca	ggcctggtgg	ctcacgcctg	taatcccagc
1441	accitaayay	gccaaggcgg	atggatcact	tgagcccagg	agttcaacac	cagcctgagc
1501	accatggtaa	aaccccatct ccagctactc	Ctaccaaaaa	tacaaaaatt	agctgggctt	ggtggctggc
301	cccacaaacc	agaatcaaaa	angagactga	ggcacgcacc	cggg	
361	daaccccaa	tgataaatat	gcaacaaatg	ccaccttaga	tccccggtca	tttcttctca
421	taactgaata	cagattagtc	tocatcaata	gggaggatga	ggagaaaaat	gaaagtgggt
481	cattcatctc	agaagatgcc	tecaccaatatt	tangengete	ctccaaaaa	caacttcctg
541	catctatata	caccggagtg	tttataataa	gactagett	ciggetgaea	cicitigicc
601	tattcatcct	gaaaatgaag	atcaagaaa	gccccccact	adacatcatg	gccatcgttg
661	caccacatat	gctgtttgtg	totatactac	cggcggtggt	gracargerg	cacctggcca
721	gtgattggca	gtttgggtct	gaattgtgtc	acttcatcac	tagacasttt	tacteceggea
781	tatacacata	tatcttgctc	atgacagtos	taagcattg	coast++o+~	actatactact
841	atcccataca	gtccctctcc	tagacatecta	taagcactya	ttoottooot	tatatasasas
901	tctaaacttt	ggccatcgca	agagtagtag	ctctcatcat	Caaggaggaga	accatoca
961	tacccaaact	caacatcact	acctatcata	atotoctcas	traascret~	ctcassacet
1021	actatoccta	ctacttctca	accttctcta	ctatattatt	ttttataca~	ctastastt
1081	ccacggtctg	ttatgtgtct	atcattcgat	atettagete	ttccacaatt	accaseces
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(2) INFORMATION FOR SEQ ID NO:3001:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 12 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3001:
- 1 tcgttcctct cg

(2) INFORMATION FOR SEQ ID NO:3002:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 117608 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3002:

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GTT CCC BCB GBG CBG TGC TGT TGT TGG GCB TCT TGC CTT CCC BGG GCC CTT TTC TGG TGG GGT GGT GCT GTT GGG C TTT CTT CTG TTC CC TTT CCC CTG GGT CTT CC CTC CTG CTC TTT TTT C ATT TGC TCT CCT ATT ACT TTC TGT GTC CAT TTT TTC ATT AAC CGA GCT GT BTT TGC TCT CCT BTT BCT TTC TGT GTC CBT TTT TTC BTT BBC CGB GCT GT GCC TGT GTC TGT CCT CCT GCT TCG TTC TTC CTG CTT GGT GCC CTT GCC G GTC CTG CTC CGG GCT GTG G GTC GTG GCC GCT CCG GCT GGT GGG CTC CCC TGG CCT TCG CTG GCT GGC GGC GTG C GGG TCT TGC TCT GGG GGC CGT GGT TGG GGG TCT TC GCT GCC TCC GTT TGG GTG GC CCT GGC TGT TCT CTG AAT ATT GAC CTT CCT CCA TGG CGG TCC TGC TTG GAT TCT CCC GA TCT CTG BBT BTT GBC CTT CCT CCB TGG CGG TCC TGC TTG GBT TCT CCC GB GCC TTT CCT GGT TCT CTT GTT GTT TTT GGG GTT TGG CTT ACA GTA GAG TAG GGG ATT CCA TGG CAG GAG CCA TCT TCT TCA TGG ACT CC TTC AAG GAG ACC TTA GGT TTC TGA GGG ACT GCT AAC ACG CCA TCT GGA GC BCB GTB GBG TBG GGG BTT CCB TGG CBG GBG CCB TCT TCT TCB TGG BCT CC TTC BBG GBG BCC TTB GGT TTC TGB GGG BCG CCB TCT GGB GC GTT GTT TTT GGG GTT TGG CTT GCC TTT CCT GGT TCT CTT BCB GTB GBG TGG CBG GBG CCB TCT TCT TCB TGG BCT CC TBG GGG BTT CCB TTC BBG GBG BCC TTB GGT TTC TGB GGG BCT GCT BBC BCG CCB TCT GGB GC GCC TGT GTC TGT CCT CCT GCT TCG TTC CTC TCG TTC CTG CTT GGT GCC CTT GCC G GTC CTG CTC CGG GCT GTG G GTC CTC GCC CTG GCT CCG GCT GGC CGT GGT TGG GGG TCT TC GCT GCC TCC GTT TGG GTG GC GAT CTC TGA ATA TTGA CCT TCC ATG GGA GBT CTC TGB BTB TTGB CCT TCC BTG GCG GTC CTG CTT GGB TCT GGG CTG CTT TCC TGG CCT TCG TGG TTC CTC TTC CTT CGT TTG CCG TCC GCG GGG GCC CCC GGG CCT GGC TGC CTC CTG GTC GCG CTT GTC GTT TTG GGG CCG GCT TTG CCC GCC TCC CGG CGC CTG GCC CGG CC TTC CTG GGC TGC GTG CGC GTT CTG TTC TTC CTG GCT CTG GGG TGT CCT GGC CTT CGT GGT TCC TCT TCC TTC GTT TGC CGT CCG CGG GGG CCC CCG GGC CT GGC TGC GCT CCT GCC CCG CCT CTT TCC TTT GG GGC CGG CTT TGC CCG CCT CCC GGC GCC TGG CCC GGC CTT CCT GGG CTG CGT GCG CGT TCT CTT CTT CCT GGC GCA GGA GAC AGG GCA GGG CGA TCA GGA GCA GCG TGA GCC AAA GGA GGA CCA TCG GGA ACG CAG CTC CGG AAC GCA GGA CAG AGG TGC C GC BGG BGB CBG GGC BGG GCG BTC BGG BGC GTG BGC CBB BGG BGC BTC GGG BBC GCB GCT CCG GBB CGC BGG BCB GBG GTG CC TCT GCC CTG TCC GCC GGC TCT TCG GTG GCT CGG CCC CGC TCC TTG TCT TGC CGC GGG TTG GTT CTG CCT GGG CTC TCC CCT CTC CTC CTT TTC TCC CTT CCT GCT GTT CTG TCT TGC CTT CCT CTG GGT CCT CTT GGC CTG GGC GCT CTT CCC CTC GGG CGG CTG CGG GCG CTC GTG CTG CCG CTC CCT GGG GGT GCT CCT TCC CTT TCC CCG CTC GTG GGG TTT GCG CCT GGT GGG CTG GGC TGG GCT TCC CTG TGC CCC TTT CCT CTG CTG GGT CCC CCT CCC GTT CCA AGC TGC ACC GCA CAG ACC GGC GCT ACA GGA CAG AGC CAG GCA AGC ACC CAT GGG GAT CCA GGC CCA GCT GTT CCB BGC TGC BCC GCB CBG BCC GGC GCT BCB GGB CBG BGC CBG GCB BGC CBT GGG GBT CCB GGC CCB GCT G CTCAGTGGCC CCCAAAAGGA TGAGTAATAC ATGCGCCACG ATGATCATAT CCTTTTTACT ATGAGGCCGT GTCTGTCGTG TCTTTCCTTT GCTCTTGGTG TGTCTTTGCT GTGCCCTGCC TCTCTGCCCG TGTCTGTCGT GTGTGTCTTT GCTGTGCCCT GCCTCTCTGC GGGGGTGGCT TCCTGCCGCG TCTCTGGGCC GTCCCGTCCC TCGGCCCCGC GCCGCGCTCG GCTCCTCTCC CTCTGGCCCG GCTCGGGGCG GGGCGGGGCG GTGGGCGGGC GGCGCTGCCC TGCGCGCGGC GCTGGCCCCT GCTGGCCGTC GGCTGCGCGC TGCTGGCTGC CCTGCTGGCC GCGCCGGGGC CTGTCCGCCT CTGCGGGCGC TGTCTCCTGG CTTGTCTTCC **GGCTCTTCTG** CTGGGGTGGG GCTGGGCGGC CGGCCCGGTG CTGGGGCTCC TCGGGGGGGG GGGCTCTTCC GGGCTGTCTC CCTCCGGGGC GGGGGTTTCT GGCCGTGGGG GTCTTGCCTG GCCTCCGGGC TCCTGCTTGT CTTGCCTTCC TTCTCTGGTC GGTTGTGGCT CGGGGCTCCG TGGGTCCCTG GCGCCCGTTT GTGTTTTGTC TTTTCCCCTG GCGTCCCTGT GCCCCTCTCC TCTCCTTCCT CTGCTTCTCG CTCTCCTTTG TGGGGCCCTC CCTGCTGCTC TTGGTTTTGG GCTTTTTTC TCTTCCTCCT TTTTCGTGCG TGGGCCTCC GCACGCCTCT TGCCACCTCC TGCGCAGGGC AGCGCCTTGG GGCCAGCGCC GCTCCCGGCG **CGGCCAGCAG GGCAGCCAGC** AGCGCGCAGC **CGACGGCCAG** CATGCTTCCT CCTCGGCTAC CACTCCATGG TCCCGCAGAG GCGGACAGGC GCBCGCCTC TTGCCBCCTC CTGCGCBGGG CBGCGCCTTG GGGCCBGCGC CGCTCCCGGC **GCGGCCBGCB GGGCBGCCBG** CBGCGCGCBG CCGBCGCCB **GCBTGCTTCC** TCCTCGGCTB CCBCTCCBTG

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TCCTCTTCAG TTTCAGCAAT GGTTTGATCT AACTGAA	
	ebooddordi bbiciicbic
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UMJJJJAMA	CATCUIACC	INCALIGUE	ICIICCICAC	CACOCAAC	reducented	cccanital

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	•				GAC	

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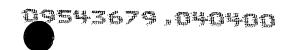
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CAAATCTCTA	СТААААААТА	CAACAAAACA	AAACAACAAC	AACAAAAACA	GAAAAGGAAA	CATTAGCCCA
GCGTGGTGGC	AGGTACCTGA	GGTTCCAGAT	ACTTGGGAGG	CTGAAGCAGG	AGAATCGCTT	GAGCCCAAGA
GATGGAGGTT	GCAGTGAGCC	GAGATCATGC	CACTGCACCA	CAGCCAGGGT	GACAGAGCCA	TACTTCCCAG
CACATTGGGA	GGCCAAAGCT	GAAGAATAAT	TTGAGGTGAG	GATTTGGAGA	CCAGCCTGGC	CAACATGGTG
AAACTCCGTC	TGTACTAAAA	ATATAAAACT	TAGTGGGGCA	TGGGGGCACA	CACCTGTAAT	TTCAGCTACT
TAGGAGGCTG	AGGCAGGAGA	ATTGCTTGAA	CCCGGGAGGC	GGAAGTTGCA	GTGAGCCAAG	ATCGTGGCCA
CTGCACTCCA	GCCTGGGTGA	CATAGTGAGA	TTCTGTCTCA	ААААААТАА	AAGAAATTTA	AAAAATCACT
CTCTTCCAAA	GATAGATAAA	TAAGACAGCA	GATATACTAA	GGAATAACCT	CACCAACTTG	TCATTGACTG
ACATGATTTC	TTTTGGCCCA	CTTGGCCAGC	TAGTCTGGTT	TGGTTTTCTG	GAAATGAAAG	AAATAATCAG
AGTTTAATGA	CAGAGAGCGT	GAGACCCAGA	AAGACAAAAG	TAGATGAGGT	AAGTCTCTTG	AGCGAGACTT
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TTATGAAGAA	TTAAACATAT	ATTCAGCTAC	TTACAGTGAG	TTGGAAGACC	CAGGGGAAAT	GTCTCCTCCC
ATTGATTTAT	AAGAATCACG	TGTCCAGAAC	ACTCTGATTC	ACAGCCAAGG	ATCCAGAAGG	CCAAGGTTTT
GTTAAGGGGC	TACTGGAAAA	ATTTCTATTC	TCTCCACAGC	CTGCTGGTTT	TACATTAGAT	TTATTCGCCT
GATAAGAATA	TTTTGTTTCT	GCTGCTTCTG	TCCACCTTAA	TATGCTCCTT	CTATTTGTAG	ATATGATAGA
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CCGAGATCGC	ACCAGTGCAC	TCCAGCCTTG	GTGACAATGG	GAGACTCCAT	СТСАААААА	АААААААА
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	UIMICIAIG	TIMIMIUCA	CANOCCAIAI	TIMMUCMUMM	ACTACCCGTT	GCAGGAGACG



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CTCCTGTCTT	ATGGCGTTGC	AGGCCAGGTT	ATGCCTCATG	CTGACTTGCA	GAGTTCATGG	AATGTAACTA
TATCATCCTT	TATCCCTGAG GT	CACCAGGA ATCA	.GG			

(2) INFORMATION FOR SEQ ID NO:3003:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 35459 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3003:

CTT GCT CCT GGG GGC CTC CTG GTC CCT CTG GCT G TT CCC GGC CCT GGB CTG GGG CBG GGG CCG CGT BGG CGC GGC TCG CCB GGB CGG GCB GCG CCB GCB GCB GCC TCB GCB TCC TGG CCB CGG CCT GG GTC CTC GCC GGG GCC CTT GCT GCC CTG GCT GT GCC CTG GGG GTC TGG GTT CGG CTG T CCC CBG CBG GBC CBG TCC CBT CCB CBG CGT GTG BTG BGT BGC CBT TCT CCT GCB GCC GBG CGC GGG CGB GCB TCG C TTT GGG CTT TTC TCC TTT GGT T TGB GCG CCB GGB CCG CGC BCB GCB GCB GGG CGC GGG CGB GCB TCG CBG CGG CGG GCB GGG GGGCTCCCGC CGCGBGBGGT TBTGGGCTCC CBGGBCCBCC CGCBCCGCGC BTTCGCCBCG **GGBCGTTTBC CBGTGCGCGG** CCGBCBTGBC **GBBGTTGGGC** GCBBTCBGGG TGGCGCCGCB GBBGTGGCCT CCGCGCBGCT GCBGGGBCBC CBTGBBGGGC CBCGCGTGGG GCCGCGCTCG CCGGCCCCC **BCBBTCTCCG** BGGCCBGCGC GGTGCCCCC **BGCBGCBBGG** CCGGCBGGBC BCBGGCGBGG **BGBCBCGCGB** GTCGGCGGCC GBGGGTCBTG GTGGGGCTGG GGCTCCGGGG TCTCTGCCCC TCCGTGCTGG TGGGGCTGGG GCTCCGGGG TCTCTGCCCC TCCGTGCCGC GTGGGGCCGC GCTCGCCGGC CCCCCCTGC CGGGTGGGCT CCCGCCGCGC GCCGGCCTGC CGGCCCCTCG TGGGTCCTGC TGGCCGGGTC CGGGTCCCGG GGGTGGGGCG CGBGTCGGCG GCCGBGGGTC CCCTCCBCBT CTGCTCTGBC CTGCTGGBCT **CTGGBTCTGB** BGBTBCGCCB TGTBGGGGCG GGBGTGGGGC CTGCTCTCCC GGCCTCCGBT GBTCTCCCCT GCCTCBGCCC CBGTGGGTBG **GBGBBBGGCC BGCBGBBGCB** GGBGTGGCTG CBTCTTTCCT GGTGGGGCCT GCTCTCCCGG CCTCCGTGTG TTGCTGGGTG TTTTCCCGTC TCTGGTCTGC CTTCGGGGGT CGT CCGGGGCTGC BGCBBCCTCB TCBGCTCTTG CCTGGBGTGG CTCBGCCTGG GCCTGCBGGG **CCBCCBGGBG** BBTGGCBGCB BGGBTGGCGB GGGTCCTCBT GGCTGGGGTC BCBGBTCCTC TBGCTBGGCB GGGTGBCCBG BGBGGGC GGG TCC TCB TGG CTG GGG GCC TGG GCC TGC BGG GCC GCT CTT GCC TGG BGT GGC TC GCC CBG BGT CTT CCC TGG T CGCTGCBBTC TGCTCCGGGG CTGCBGCBBC CTCBTCBGCTC TTGCCTGGBGTG GCTCBGCCTGG GCCTGCBGGG CCBCCBGGBGB BTGGCBGCBBG TCCTCBTGGC GBTGGCGBGGG TGGGGTCBCCT GGBGGBGGGB GBGCBGGGGG TCCTCBTGGC TGGGGTCCCT CTCTCCCGTC CT CGG TTT CCT TTG CGG TC TTG GCC CGG GCT CCG GGT G CCC GCC CGC CCG GCC GCC GCC GCC GGC CTG TCC CCG CCC CGC CCC GGC CCG GGG CGC GGG

CTG GTG CTG GTG GTG GCT CTG CCC GTG CTC GCCCTG CCT GGG CTG GCC TCT TCG GGT GTG GCT GGG TGG TGC TCT CCC TTT CCC TGC TGG CCG TTT GT CCT GTT TTC TGT CTT CCT CT TTC CTC CTG TTT CTC CGT TTG GCT TGC TGC TTG CGG GGC TGT CTC C CTT GCC CCT GTG GGC TTT CCC TGG TGG CCG TTG TGG GCG GTG TGG TCC GCC T TGC CTC TGC TGG TCT TTC CTCGGTBGBC GCGCTCGBBC TCGGGTGGGC CGGTGGTGBG CGGCGGCGBCB CGCGGBBGGC CCTGCGCGCC **GBGBTCBCCTG** CBGGGBGBBG TBGGCTTGCB **GCBGGBCTCC** CBGGBGGGTG **BCBGCBGCCB** GTBGBGCTBC CTCGTCCTTC GCBCGGGCTG **BTGGTBCCGT** CGGTGTGGTG TGTGTGBBGG CGBGCTGGGC CCCGTCTGCT GCTCCTCGTG CCGCCTCGTC CTTCA TGG TA CCGTCGGTGT GGTGGCCTCG GGTGGGCCGG TGGTGGGGCG CGCGCGCTCG CGTGGCTCCG GCTCTTCTTT CCCGGCTCCGT CGGCCCGGGG GCCTTGGTCT CCCTCGTCCT TCBTGGTBCC G **BCCGGCGGBG** CCGCCBGGGT GGBCTGGGBG TGGGTTTCTC CCCGCCGTTC TCBCCCBCCG CGCTGBGCTC **BGCGCCTBBG** BCTGCTGTTT CTGGBGCTCC TTGGCBBGCC **BCBBBCBGCB GBGBGBBBBT CBTGBGCBBB** TBBTCCBTTC **TGBBBBBBBB GGBTCBBBBB** CCTCCCGTTC CCCGTTCGCC TGGCGCGCGC TGCGGGTTCC TCGTGGGTTT CTCCCCGCCG TTCTCCGGTC TGTTGCCTTT GTGGGCTTCT TGTCTTTTTG GCTGTTCTTT TCCTGCTTGG CGTCTTTTCC TTTCTTTGTG CTCGGTTGTG GGTCCGCTGG TCCTTTGCCC TGTGTGTTTC TGCTGCCCGT TCGCCTGGCG GTTCCTCGTG CGCGCTGCGG GGTTTCTCCC CGCCGTTCTC CGGTCTGTTG CCTTTGTGGG CTTCTTGTCT TTTTGGCTGT TCTTTTCCTG CTTGGCGTCT TTTCCTTTCT TTGTGCTCGG TTGTGGGTCC GCTGGTCCTT TGCCCTGTGT GTTTCTGCTG **GGBGCTGBTB CTGCBGATTT CBGBGGGBBG BBCCCTGBTB** CTCBCCBGCT TCBGCTCTGG **BGCBCBBGBG** BBBGBGCBGC **BGGGGGBGBG GBBGBBGCBG CBTCTTCCCB** GBGBGGCTGC **CTGBGCBBBT** GCTGGTTTTC CTTTCCBGTC TTGGGTTTTB **TBBCTCCCBG BBGGCBBGBG BGGGGCBBGG** CGTTTTCTTC TCTCGCTGGT TTTCCTTTCC TGGCAGTGGG TGGGGGTGGG GGTGGGGTGG CTTCCTTGTT CCTGGGGGTG TCCTCTTGCT CTGGGCTTTT CTCCCCTTTT CCTTCCTGTC TGTTTTCCTG GGGCTCTCCT CTGTCTCTGT GTCCTTGCCC TGGCCCTCTT CCCTCTCCTG TCTCCTGTCC **CTGTGTTCCG** CCCGTCTTCC CTCTCCTGAC CTCCTTTTCC TCCGCTGGGT GGGGCCCTGC CTGTTCTCTG CTCCCTGGCT TGGGGTTTCT TCTGTGTGTC TTCTTCCTCT GTTGGCTGGC TTTCTCCTTC TTTTGTCTTC CTGGGTGCCC CTTCTTCCTT TCTTGGGTCC TTGGTGCTTG GGCTGGG GCGTCTTGGG GTGCBGGGCC CBTCCTGCTG CGCCTGGGCG CTGCTGTGCG TCCGTCTGCT GGGGGGCCGG GGTGGCTGGG CCCTGCTTGC CGCACGACCC CGGGCCGACC CGAGGCTCGG GGGGCTGTGT TCTGGCGCTG GTGGGCTTGG **GCCCCTCTGG** GGGCTGGGTT TCCTGCTGCG CCTGGGCGCT **GGCGTCTTGG** GGTGCGGGGC CGGGGGGCCG GGGGGCCGCT GTTCGTGGGC CTGGGGGTGC CTGTGGCTGC CGGTTGCCCC GGTTGGTGGC GCCGTCCTGC TGCCGGTCGT TGGCTGGGTC CCCCCGCCCG TTTCCTGGGG TCCGCGTGGG GTGCTCCGGT TCCTCGTGCC GCTGCTGCCT TGTCTTTCCG GCCGTGGCGG CGTGGTGGTC CGCCCCCCT GGCCTTCTGC TCGGGGTCTG GCTGGTTGCC **GGTGCCCTTG** GCGGCGGTCT TCTTCCTGGT GGCTCTGGGC CCGGCCGGTC TCGGGCGTCT CGTGTTCGCT CTTGTGCTGT TCCGGCCGCT CCTTCCTCTT CCGCCGCCGC CGCTCCCCGC CCGCTCGTCG CCCTGGCCCG GCCTCCTCCT GGCCGCTGTC TCGGGCGGCG GCCTTGGCGC TCCGTTTGGG GCTGCCTCTG GCGCTTCCGG CCCTCGGCCT GGGCGCTCTC TTCCGCCTGT GCTGGTGGCC CTCGTGGGCC CCTCCTGGCC TCCGGTGTCC TGTGGTCCCC CGGCTGGTGG CCGGGCCGGT TGGGCGGGCG TGGGCGCCGG CGGGTCCTCC GGGCTGCCCT TCTCCGCCGG GGGTCCCGCG CTCCTGCTGT TCCCTGGGCT CTTCTGCCTC TCTCCTGGGT GGGTGCTGGG TGCCGGGGTC TCCGGGCTTG CCCCGCGCTG CTGGGCGTTC TGCGGTCTTG GGGTTGTCTG TGGCCCCGCT CGTGTCGCCC TCCGTCGCCC GTCGCCGGCC TCGTCCCCTC CTGGGTGCGC GGCGGGCTGG TCCTGGCGTT TTGCTCCTTC CTGGGCGTCT TGGGGTGCBG GGCCCBTCCT GCTGCGCCTG GGCGCTGCTG TGCGTCCGTC TGCTGGGGGG CCGGGGTGGC TGGGCCCTGC TTGCCGCACG ACCCCGGGCC GACCCGAGGC TCGGGGGGCT GTGTTCTGGC GCTGGTGGGC TTGGGCCCCT CTGGGGGCTG **GGTTTCCTGC** TGCGCCTGGG CGCTGGCGTC TTGGGGTGCG GGGCCGGGGG GCCGGGGGGC CGCTGTTCGT GGGCCTGGGG GTGCCTGTGG CTGCCGGTTG CCCCGGTTGG TGGCGCCGTC CTGCTGCCGG TCGTTGGCTG **GGTCCCCCCG** CCCGTTTCCT GGGGTCCGCG TGGGGTGCTC CGGTTCCTCG TGCCGCTGCT GCCTTGTCTT TCCGGCCGTG GCGGCGTGGT GGTCCGCCCC CCCTGGCCTT CTGCTCGGGG TCTGGCTGGT TGCCGGTGCC CTTGGCGGCG GTCTTCTTCC TGGTGGCTCT GGGCCCGGCC GGTCTCGGGC GTCTCGTGTT **CGCTCTTGTG** CTGTTCCGGC CGCTCCTTCC TCTTCCGCCG CCGCCGCTCC CCGCCCGCTC **GTCGCCCTGG** CCCGGCCTCC GGCGGCCTTG TCCTGGCCGC TGTCTCGGGC GCGCTCCGTT TGGGGCTGCC TCTGGCGCTT CCGGCCCTCG GCCTGGGCGC TCTCTTCCGC CTGTGCTGGT GGCCCTCGTG GGCCCCTCCT GGCCTCCGGT GTCCTGTGGT CCCCCGGCTG GTGGCCGGGC CGGTTGGGCG GGCGTGGGCG CCGGCGGGTC CTCCGGGCTG CCCTTCTCCG CCGGGGGTCC CGCGCTCCTG CTGTTCCCTG GGCTCTTCTG

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	CTGGTCCTGG CO			CBGT TTTTGBTC		GGGGBGGBCB
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AACCAGCGTG	ACTGCATCCC	TTTCTTCCGC	TCGGCACCCT	CATGCCCCCA	AAACAAGAAC	AGAGTCCGCA
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GCGGCTCCGC	AACCGGACCA	ACTACCTGGG	GCTGCTGGCC	ATCAACCAGC	GCTTTCAAGA	CAACGGCCGG
GCCCTGCTGC	CCTTCGACAA	CCTGCACGAT	GACCCCTGTC	TCCTCACCAA	CCGCTCGGCG	CGCATCCCCT
GCTTCCTGGC	AGGTCAGACA	GGGAGGAAGG	TGGTGTCTTC	CCAGGAAACA	GCCATCCCTG	GGGTCCCAAC
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GGATCTGTGC	AC TGAAGA	GATG GAGGTCC	AGT GAGGGCCA	GG AGTTTGGCC	•	TCCCATCCCC
AGCCCTGGGT	CTACCCTGGT	AGAAAGACAT	TTCTCTGGGA	AAGGCTGCAG	TAAATCTGAG	CTTGGGGTTT
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AACCGGCTGG	CCACCGAGCT	GAGACGCCTG	AATCCCCGGT	GGAATGGAGA	CAAACTGTAC	AATGAGGCTC
GGAAGATCAT	GGGGGCCATG	GTCCAGGTAA GG	AGCTCTGC ATC	CCAGCAT CCCCC	CTTTGTATCT	
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GACTTTCTGC	CCCTGGTTCT	GGGCAAGGCC	CGGGCCAGGA	GAACCCTGGG	GCACTACAGG	GGGTACTGCT
CCAATGTGGA	CCCACGGGTG	GCCAATGTCT	TCACCCTGGC	CTTCCGCTTT	GGCCACACAA	TGCTCCAGCC
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GGGAGCATGC	CCTCCCCTAG G	rgg tccagct	GCT TCATGTCT	CT CCAGAACTC	T GTTTCCTGAC	AAACGTTACT
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CACACAGAGT ACTGTACACA AAAACAACTC AGCGAGTCGA CCTTTGATGA GACTGTCCTT CACCTTTGAT TTGACTGTCC AATCCAGATA TTCAAGACCA CCTGTGCCAC GTCCCCGCAG TTGTCCTCCC ATAAGGCCAA GACCAGAGGA CAATATTACG AGATAGAAAC CAATGCCCCA ACTGCCCGGG CGGCCATCAC CCGCTATGCT CTGTGCATCG ATGGCCGTGA ATGGCCGTGA ATGGCCGTGA ATGGCCGTGA ATGGCCGTGA ATGGCCGTGA ATGGCCGTGA ATGGCCGTGA ATGGCCGTGA ATACGAGTGG	GATGTAACAG AGCTGGGGAC TCTGGATGGC AAACTGAGGC GGGGACTGGG ACCCCGGGGA GAGGGGACTG TTACCCCGGG AGTGACATAA AATTCCACCA CTCCAGTCCA CCCCTCGTGG CACGGCATGT AGGGATTTA CCCAGGGACA GCTCCTTCAA AACAGGAACC CGCTGCATTG AAATGTTTGA CGTGTTCCCC GGCTACCAGA ACCTGGGCTG CCCTGAGGCTC TTTCGGGGAAC	CAAGATCAGG ACTCCCTTTG ATGGGGTGAG TCCGGCCGCA CAGTTCTAGA GCAGTGCAG GCAGTTCTA GAGGCAGTGC GTGACCTGCT GTATGCAATG GTGACACAGG AGACGGGAAA ACTTGCAGGT AGCCTACCC AGAGGCAAAA TACCAACTGA GGAGGATCCA ACACTTGC CAGCGGAGTG TGCCAGATGC GAAGCCCAAG TTCGAAATCC TGGAAGCCCAAG	TCACCCACAG GAAACCAAAA TATAAATACT GAGAACTCAG CAGTCCCGAA CAGCTGCAA GGT GACAGTCCCG AGCCAGCTGC TTGTAAAGCC AATGGGGAAA ATGACCTTCA GAAGTCTCCA AACTGGGGCA CCAAATCTTG TCCAGATGAG ATAGAGGAAC CGGGAGATGA GTGGTCCAAC AGACACGTGC ATGGCAACCA CAGCATCAGA TACGGCCGCT CACCTGACCT CACCTGACCT CACCTGACCT CACCTGACCT CACCTGACCT CACCTGACCT CACCTGACCT CACCTGACCT CTGGTACGCC	GCCCTGGCAG ANANANAN TCTTGGCTGC CCTCATTCCT GTTCTCAAGG GAGTTGC C AAGTTCTCAA AAGCCCCACA ATAGAGATGG AAGACATCAA GTATCACAAC GAATCTCTGG GCGGGATGAC CCTGGGGTCC CTTCTACCTC ATCTGGCCAG GCTCATCTTC CTGCAGGTCT GTTACTCCAC CGACTTCCGG GGGGACCCTG TCGATGTGGT TCGATGTGGT TGTGCTTGAG CTGCCTGCAG	TCACAGTCAT AAAAAAGAGA CAGTGTGTTC GCTTTAAAAT CACAGGTCTC CTGCTTTAAA GGCACAGGTC GTGAAGAACA CCTGTCCTTG CAACAATGTG CTCAGCAAGC TCAAGCTGGA TTTCCAAGAC ATTATGACTC AAGCTATCGA GGTGGAAGCG GCCACCAAGC TCGATGCCCG CAACAATGGC CAACATGGC GTGTGGAATG CCAACGTGGA CCCCTGGTC GTGGCCATGG TGGCCAACAT	AAATTAGCTA CCTTTATGCA ATAACTTTGT CTCTCGGCCA TTCCTGGTTT ATCTCTCGGC TCTTCCTGGT TCTGAGCTCA GAAATTTCTG GAGAAAGCCC AGCAGAATGA TGCAACCCCA ACACTTCACC CCAAAAGTTT ATTTGTCAAC GTAACAAAGG AGGCCTGGCG CAGCTGTTCC AACATCAGGT CTCAGCTCAT ATTCACTCAG CTGCAGGCCA AACATCCCAA GCTGCTTGAG

GCTGGCCTCG	CTCTGGAAAG	ACCAGGCTGT	CGTTGAGATC	AACATTGCTG	TGATCCATAG	TTTTCAGAAG
CAGAATGTGA	CCATCATGGA	CCACCACTCG	GCTGCAGAAT	CCTTCATGAA	GTACATGCAG	AATGAATACC
GGTCCCGTGG	GGGCTGCCCG	GCAGACTGGA	TTTGGCTGGT	CCCTCCCATG	TCTGGGAGCA	TCACCCCCGT
GTTTCACCAG	GAGATGCTGA	ACTACGTCCT	GTCCCCTTTC	TACTACTATC	AGGTAGAGGC	CTGGAAAACC
CATGTCTGGC	AGGACGAGAA	GCGGAGACCC	AAGAGAAGAG	AGATTCCATT	GAAAGTCTTG	GTCAAAGCTG
TGCTCTTTGC	CTGTATGCTG	ATGCGCAAGA	CAATGGCGTC	CCGAGTCAGA	GTCACCATCC	TCTTTGCGAC
AGAGACAGGA	AAATCAGAGG	CGCTGGCCTG	GGACCTGGGG	GCCTTATTCA	GCTGTGCCTT	CAACCCCAAG
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CGTTTGGCAA	TGGAGACTGC	CCTGGCAATG	GAGAGAAACT	GAAGAAATCG	CTCTTCATGC	TGAAAGAGCT
CAACAACAAA	TTCAGGTACG	CTGTGTTTGG	CCTCGGCTCC	AGCATGTACC	CTCGGTTCTG	CGCCTTTGCT
CATGACATTG	ATCAGAAGCT	GTCCCACCTG	GGGGCCTCTC	AGCTCACCCC	GATGGGAGAA	GGGGATGAGC
TCAGTGGGCA	GGAGGACGCC	TTCCGCAGCT	GGGCCGTGCA	AACCTTCAAG	GCAGCCTGTG	AGACGTTTGA
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TACAGGCTCG	TGCAGGACTC	ACAGCCTTTG	GACCTCAGCA	AAGCCCTCAG	CAGCATGCAT	GCCAAGAACG
TGTTCACCAT	GAGGCTCAAA	TCTCGGCAGA	ATCTACAAAG	TCCGACATCC	AGCCGTGCCA	CCATCCTGGT
GGAACTCTCC	TGTGAGGATG	GCCAAGGCCT	GAACTACCTG	CCGGGGGAGC	ACCTTGGGGT	TTGCCCAGGC
AACCAGCCGG	CCCTGGTCCA	AGGCATCCTG	GAGCGAGTGG	TGGATGGCCC	CACACCCCAC	CAGACAGTGC
GCCTGGAGGA	CCTGGATGAG	AGTGGCAGCT	ACTGGGTCAG	TGACAAGAGG	CTGCCCCCCT	GCTCACTCAG
CCAGGCCCTC	ACCTACTCCC	CGGACATCAC	CACACCCCCA	ACCCAGCTGC	TGCTCCAAAA	GCTGGCCCAG
GTGGCCACAG	AAGAGCCTGA	GAGACAGAGG	CTGGAGGCCC	TGTGCCAGCC	CTCAGAGTAC	AGCAAGTGGA
AGTTCACCAA	CAGCCCCACA	TTCCTGGAGG	TGCTAGAGGA	GTTCCCGTCC	CTGCGGGTGT	CTGCTGGCTT
CCTGCTTTCC	CAGCTCCCCA	TTCTGAAGCC	CAGGTTCTAC	TCCATCAGCT	CCTCCCGGGA	TCACACGCCC
ACGGAGATCC	ACCTGACTGT	GGCCGTGGTC	ACCTACCACA	CCGGAGATGG	CCAGGGTCCC	CTGCACCACG
GTGTCTGCAG	CACATGGCTC	AACAGCCTGA	AGCCCCAAGA	CCCAGTGCCC	TGCTTTGTGC	GGAATGCCAG
CGCCTTCCAC	CTCCCGAGG	ATCCCTCCCA	TCCTTGCATC	CTCATCGGGC	CTGGCACAGG	CATCGTGCCC
TTCCGCAGTT	TCTGGCAGCA	ACGGCTCCAT	GACTCCCAGC	ACAAGGGAGT	GCGGGGAGGC	CGCATGACCT
TGGTGTTTGG	GTGCCGCCGC	CCAGATGAGG	ACCACATCTA	CCAGGAGGAG	ATGCTGGAGA	TGGCCCAGAA
GGGGGTGCTG	CATGCGGTGC	ACACAGCCTA	TTCCCGCCTG	CCTGGCAAGC	CCAAGGTCTA	TGTTCAGGAC
ATCCTGCGGC	AGCAGCTGGC	CAGCGAGGTG	CTCCGTGTGC	TCCACAAGGA	GCCAGGCCAC	CTCTATGTTT
GCGGGGATGT	GCGCATGGCC	CGGGACGTGG	CCCACACCCT	GAAGCAGCTG	GTGGCTGCCA	AGCTGAAATT
GAATGAGGAG	CAGGTCGAGG	ACTATTTCTT	TCAGCTCAAG	AGCCAGAAGC	GCTATCACGA	AGATATCTTC
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CGCTCTGAGG	GCCTACAGGA	GGGGTTAAAG	CTGCCGGCAC	AGAACTTAAG	GATGGAGCCA	GCTCTGCATT
ATCTGAGGTC	ACAGGGCCTG	GGGAGATGGA	GGAAAGTGAT	ATCCCCCAGC	CTCAAGTCTT	ATTTCCTCAA
CGTTGCTCCC	CATCAAGCCC	TTTACTTGAC	CTCCTAACAA	GTAGCACCCT	GGATTGATCG	GAGCCTCCTC
TCTCAAACTG	GGGCCTCCCT	GGTCCCTTGG	AGACAAAATC	TTAAATGCCA	GGCCTGGCGA	GTGGGTGAAA
GATGGAACTT	GCTGCTGAGT	GCACCACTTC	AAGTGACCAC	CAGGAGGTGC	TATCGCACCA	CTGTGTATTT
AACTGCCTTG	TGTACAGTTA	TTTATGCCTC	TGTATTTAAA	AAACTAACAC	CCAGTCTGTT	CCCCATGGCC
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TCTGCTGCCT	GCTCCAGCAG	ACGGACGCAC	AGTAACATGG	GCAACTTGAA	GAGCGTGGCC	CAGGAGCCTG
GGCCACCCTG	CGGCCTGGGG	CTGGGGCTGG	GCCTTGGGCT	GTGCGGCAAG	CAGGGCCCAG	CCACCCCGGC
CCCTGAGCCC	AGCCGGGCCC	CAGCATCCCT	ACTCCCACCA	GCGCCAGAAC	ACAGCCCCCC	GAGCTCCCCG
CTAACCCAGC	CCCCAGAGGG	GCCCAAGTTC	CCTCGTGTGA	AGAACTGGGA	GGTGGGGAGC	ATCACCTATG
ACACCCTCAG	CGCCCAGGCG	CAGCAGGATG	GGCCCTGCAC	CCCAAGACGC	TGCCTGGGCT	CCCTGGTATT
TCCACGGAAA	CTACAGGGCC	GGCCCTCCCC	CGGCCCCCCG	GCCCCTGAGC	AGCTGCTGAG	TCAGGCCCGG
GACTTCATCA	ACCAGTACTA	CAGCTCCATT	AAGAGGAGCG	GCTCCCAGGC	CCACGAACAG	CGGCTTCAAG
AGGTGGAAGC	CGAGGTGGCA	GCCACAGGCA	CCTACCAGCT	TAGGGAGAGC	GAGCTGGTGT	TCGGGGCTAA
GCAGGCCTGG	CGCAACGCTC	CCCGCTGCGT	GGGCCGGATC	CAGTGGGGGA	AGCTGCAGGT	GTTCGATGCC
CGGGACTGCA	GGTCTGCACA	GGAAATGTTC	ACCTACATCT	GCAACCACAT	CAAGTATGCC	ACCAACCGGG
GCAACCTTCG	CTCGGCCATC	ACAGTGTTCC	CGCAGCGCTG	CCCTGGCCGA	GGAGACTTCC	GAATCTGGAA
CAGCCAGCTG	GTGCGCTACG	CGGGCTACCG	GCAGCAGGAC	GGCTCTGTGC	GGGGGGACCC	AGCCAACGTG
GAGATCACCG	AGCTCTGCAT	TCAGCACGGC	TGGACCCCAG	GAAACGGTCG	CTTCGACGTG	CTGCCCCTGC
TGCTGCAGGC	CCCAGATGAG	CCCCCAGAAC	TCTTCCTTCT	GCCCCCGAG	CTGGTCCTTG	AGGTGCCCCT
GGAGCACCCC	ACGCTGGAGT	GGTTTGCAGC	CCTGGGCCTG	CGCTGGTACG	CCCTCCCGGC	AGTGTCCAAC
ATGCTGCTGG	AAATTGGGGG	CCTGGAGTTC	CCCGCAGCCC	CCTTCAGTGG	CTGGTACATG	AGCACTGAGA

TCGGCACGAC	0.2.00.0101	GACCCTCACC	GCTACAACAT	CCTGGAGGAT	GTGGCTGTCT	GCATGGACCT
GGATACCCGC		CCCTGTGGAA	AGACAAGGCA	GCAGTGGAAA	TCAACGTGGC	CGTGCTGCAC
AGTTACCAGO		CACCATCGTG	GACCACCACG	CCGCCACGGC	CTCTTTCATG	AAGCACCTGG
AGAATGAGCA		GGGGGCTGCC	CTGCAGACTG	GGCCTGGATC	GTGCCCCCCA	TCTCGGGCAG
CCTCACTCCT		AGGAGATGGT	CAACTATTTC	CTGTCCCCGG	CCTTCCGCTA	CCAGCCAGAC
CCCTGGAAGG		CAAGGGCACC	GGCATCACCA	GGAAGAAGAC	CTTTAAAGAA	GTGGCCAACG
CCGTGAAGAT		CTCATGGGCA	CGGTGATGGC	GAAGCGAGTG	AAGGCGACAA	TCCTGTATGG
CTCCGAGACC		AGAGCTACGC	ACAGCAGCTG	GGGAGACTCT	TCCGGAAGGC	TTTTGATCCC
CGGGTCCTGT		GTATGACGTG	GTGTCCCTCG	AACACGAGAC	GCTGGTGCTG	GTGGTAACCA
GCACATTTGG		CCCCGGAGA	ATGGAGAGAG	CTTTGCAGCT	GCCCTGATGG	AGATGTCCGG
CCCCTACAAC		GGCCGGAACA	GCACAAGAGT	TATAAGATCC	GCTTCAACAG	CATCTCCTGC
TCAGACCCAC		TTGGCGGCGG	AAGAGGAAGG	AGTCCAGTAA	CACAGACAGT	GCAGGGGCCC
TGGGCACCCT		GTGTTCGGGC	TCGGCTCCCG	GGCATACCCC	CACTTCTGCG	CCTTTGCTCG
TGCCGTGGAC	ACACGGCTGG	AGGAACTGGG	CGGGGAGCGG	CTGCTGCAGC	TGGGCCAGGG	CGACGAGCTG
TGCGGCCAGG		CCGAGGCTGG	GCCCAGGCTG	CCTTCCAGGC	CGCCTGTGAG	ACCTTCTGTG
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CCGGCTGAGC	GCCCAGGCCG	AGGGCCTGCA	GTTGCTGCCA	GGTCTGATCC	ACGTGCACAG	GCGGAAGATG
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GCCTGGACAC	CGGAGGCCAG	GAGGGGCTGC	AGTACCAGCC	GGGGGACCAC	ATAGGTGTCT	GCCCGCCCAA
CCGGCCCGGC	CTTGTGGAGG	CGCTGCTGAG	CCGCGTGGAG	GACCCGCCGG	CGCCCACTGA	GCCCGTGGCA
GTAGAGCAGC	TGGAGAAGGG	CAGCCCTGGT	GGCCCTCCCC	CCGGCTGGGT	GCGGGACCCC	CGGCTGCCCC
CGTGCACGCT	GCGCCAGGCT	CTCACCTTCT	TCCTGGACAT	CACCTCCCCA	CCCAGCCCTC	AGCTCTTGCG
GCTGCTCAGC	ACCTTGGCAG	AAGAGCCCAG	GGAACAGCAG	GAGCTGGAGG	CCCTCAGCCA	GGATCCCCGA
CGCTACGAGG	AGTGGAAGTG	GTTCCGCTGC	CCCACGCTGC	TGGAGGTGCT	GGAGCAGTTC	CCGTCGGTGG
CGCTGCCTGC	CCCACTGCTC	CTCACCCAGC	TGCCTCTGCT	CCAGCCCCGG	TACTACTCAG	TCAGCTCGGC
ACCCAGCACC	CACCCAGGAG	AGATCCACCT	CACTGTAGCT	GTGCTGGCAT	ACAGGACTCA	GGATGGGCTG
GGCCCCCTGC	ACTATGGAGT	CTGCTCCACG	TGGCTAAGCC	AGCTCAAGCC	CGGAGACCCT	GTGCCCTGCT
TCATCCGGGG	GGCTCCCTCC	TTCCGGCTGC	CACCCGATCC	CAGCTTGCCC	TGCATCCTGG	TGGGTCCAGG
CACTGGCATT	GCCCCCTTCC	GGGGATTCTG	GCAGGAGCGG	CTGCATGACA	TTGAGAGCAA	AGGGCTGCAG
CCCACTCCCA	TGACTTTGGT	GTTCGGCTGC	CGATGCTCCC	AACTTGACCA	TCTCTACCGC	GACGAGGTGC
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GACCTACGTG	CAGGACATCC	TGAGGACGGA	GCTGGCTGCG	GAGGTGCACC	GCGTGCTGTG	CCTCGAGCGG
GGCCACATGT	TTGTCTGCGG	CGATGTTACC	ATGGCAACCA	ACGTCCTGCA	GACCGTGCAG	CGCATCCTGG
CGACGGAGGG	CGACATGGAG	CTGGACGAGG	CCGGCGACGT	CATCGGCGTG	CTGCGGGATC	AGCAACGCTA
CCACGAAGAC	ATTTTCGGGC	TCACGCTGCG	CACCCAGGAG	GTGACAAGCC	GCATACGCAC	CCAGAGCTTT
TCCTTGCAGG	AGCGTCAGTT	GCGGGGCGCA	GTGCCCTGGG	CGTTCGACCC	TCCCGGCTCA	GACACCAACA
GCCCCTGAGA	GCCGCCTGGC	TTTCCCTTCC	AGTTCCGGGA	GAGCGGCTGC	CCGACTCAGG	TCCGCCCGAC
CAGGATCAGC	CCCGCTCCTC	CCCTCTTGAG	GTGGTGCCTT	CTCACATCTG	TCCAGAGGCT	GCAAGGATTC
AGCATTATTC	CTCCAGGAAG	GAGCAAAACG	CCTCTTTTCC	CTCTCTAGGC	CTGTTGCCTC	GGGCCTGGGT
CCGCCTTAAT	CTGGAAGGCC	CCTCCCAGCA	GCGGTACCCC	AGGGCCTACT	GCCACCCGCT	TCCTGTTTCT
TAGTCCGAAT	GTTAGATTCC	TCTTGCCTCT	CTCAGGAGTA	TCTTACCTGT	AAAGTCTAAT	CTCTAAATCA
AGTATTTATT	ATTGAAGATT TAG	CCATAAGG GACT	GTGCCA GATGTT	AGGA GAACTACT	AA AGTGCCTACC	CCAGCTC

- (2) INFORMATION FOR SEQ ID NO:3004:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 209279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3004:

GGG GGC GGG CCC GGC CGT TGT CTT G GTT TGG GGG TTT CCG TTG GGG TTC TCC TGG CCC GGG CCT TGC CC GGC CGT GGT CCC GGC TTC GTTCCT GTC TCC GTC TCG GCT CTT CTG GGG CCT TGC GCT GTC TTT GGT G GCB CCG TCC BGT GBT GCG GTB CTT GTC GCT GCB GCG CTC GGC CTG GTC CCG GBG BGC TGC CCT CGT CCT CTG CGG TC GTG TCT CCT GGC TCT GGT TCC CC GCT GCG CCC GTT GTC CTC TGG GGT CGG BGC CTC CCC GGG GCB GGB TGB CTT TTG BGG GGG BCB CBG BTG TCT GGG CBT TGC CBG GTC CTG GGB BCB GBG CCC CGB GCB GGB CCB GGB GTG CGG GCB GCG GGC GGG GGC TGC TGG GBG CCB TBG CGB GGC TGB G CCT CTT TTC TGT TTT TCC C CTC TGC CTT TGT TTG GGT TCG CTT CCT TTC TGC TTC TC C CTG TGT CTC CTG CTT TTT TCT TC GTC TTT GTT GTT TTC TCT TCC TTG TCT CCG CTG BGC BBG BTB TCT BGB TTC TGB GBB GCT GCB BBC BTT BTC CBB BGT BTB TTT GBG GCT TGG GGT GGT CTC GBT TTT BBBB GCT CCB BGG BTC BCG BCC BTC TTC CCB GGC BTT TTB BGT TGC TGT CGT BBG TGB GBG CTG BGB BCT GTG BBG CBB TCB TGB CTT CBB GBG TTC TTT TCB CCC GTT CTT GGC TTC TTC TGT C CGT TGG CTT CTC GTT GTC CC TGT GGG CTT CTC GTT GTC CC CCC TTC GGG GGC TGG TGG GGC CGT CCT TGC CTG CTG G GTT CTT GGC TTC TTC TGT CCG T TGG CTT CTC GTT GTC CC TGT GGG CTT CTC GTT TTT TCT CTT TCG CTT TCT TTT TTT TCT CTT TTC CTC TGT CTT GTT CTG GTC CTT CGT GGG GCT CTG TGT CGC GTG G GTG CGG CCG TGG CC GGC GGB GCB GGB GCB CGG GCB GGC GGC TCB TGT TTG GBT CGG CBG GBG CCB GGB GTT GGB GCB CTC CTC TGG TTG GCT TCC TTC GCC GGC BCB TGC TBG CBG GBB GBB CBG BGG GGG BBG CBG TTG GGB GGT GBG BCC CBT TBB TBG GTG TCG B TCCCTGTTTC CCCCCTTTCG TTCTGCGTTT GCCTTTGGCG TTTTTTTTTT GTTTTCTCTC TCCGTCTTTC TTCTCCCCT GTGGGBBTTT CTGTGGGGBT GGCBTBCBCG TBGGCBGCTC CBBGBGCTBG **CBBBCTCBBB** TGCBGBBGCB TCCTCBTGGC **TCTGBBBCGG** TGGGAATTTC TGTGGGGBTG GCATACACGT AGGCAGCTCC AAGAGCTAGC AAACTCAAAT GCAGAAGCATC CTCATGGCTC TGAAACG GGGGGTGGCT TCCTGCCGCG TCTCTGGGCC GTCCCGTCCC TCGGCCCCGC GCCGCGCTCG GCTCCTCTCC CTCTGGCCCG GCTCGGGGCG GGGCGGGGCG GTGGGCGGGC GGCGCTGCCC TGCGCGCGCC GCTGGCCCCT GCTGGCCGTC GGCTGCGCGC TGCTGGCTGC CCTGCTGGCC GCGCCGGGGC CTGTCCGCCT CTGCGGGCGC TGTCTCCTGG CTTGTCTTCC **GGCTCTTCTG** CTGGGGTGGG GCTGGGCGGC CGGCCCGGTG CTGGGGCTCC TCGGGGGGGG GGGCTCTTCC GGGCTGTCTC CCTCCGGGGC GGGGGTTTCT GGCCGTGGGG GTCTTGCCTG GCCTCCGGGC TCCTGCTTGT CTTGCCTTCC TTCTCTGGTC GGTTGTGGCT CGGGGCTCCG TGGGTCCCTG GCGCCCGTTT GTGTTTTGTC TTTTCCCCTG GCGTCCCTGT GCCCCTCTCC TCTCCTTCCT CTGCTTCTCG CTCTCCTTTG TGGGGCCCTC CCTGCTGCTC TTGGTTTTGG GCTTTTTTTC TCTTCCTCCT TTTTCGTGCG TGGGCCTCC GCACGCCTCT TGCCACCTCC TGCGCAGGGC AGCGCCTTGG GGCCAGCGCC GCTCCCGGCG CGGCCAGCAG GGCAGCCAGC AGCGCGCAGC CGACGGCCAG CATGCTTCCT CCTCGGCTAC CACTCCATGG TCCCGCAGAG GCGGACAGGC GCBCGCCTC TTGCCBCCTC CTGCGCBGGG CBGCGCCTTG GGGCCBGCGC CGCTCCCGGC GCGGCCBGCB **GGGCBGCCBG CBGCGCGCBG** CCGBCGCCB **GCBTGCTTCC** TCCTCGGCTB **CCBCTCCBTG** GTCCCGCBGB GGCGGBCBGG С GGGGTGGBBB GGTTTGGBGT BTGTCTTTBT GCBCTGBCBT TBGCBCTCCT CTBBGTTCTT GCBCCTTCBC TGGCBBBBCT BCBGBGCTGC **BGBBBTCBGG BBGGCTGCCB BGBGBGCCBC** GGCCBGCTTG **GBBGTCBTGT** TTBCBCBCBC TGBGBTGGTT CCTTCCGGGC TTGTGTGCTC TGCTGTCTCT TGGTTCCTTC CGGTGGTTTC TTCCTGGCTC TTGTCCTTTC TCTTGG CCCT TGGC CGGGBGTGGG GGTCCTGGBC GGCBCTGBBG **GCBTCCBGGG** CTCCCTTCCB GTCCTTCTTG TCCGCTGCCB GCBCCCCTTC BTTCCBGBGG CTGBTGGCCT **CCBCCBGGGB CBTGBTTBGG** TBGBBBCTBG GBGGCCGGCC TCCBCCBGGG BCBTGGTCCT TCTTGTCCGC TGCCTCTCTG **GGGTTTTCGG** TCTGGGTGGG CTTTCCTCCT GGGGCTGCTG CTGGGCTCTT CTTTTTGTTT CTGGCCTGGT GCTCTCTCGT GCCCTTTCCC TTGGGTGTCT TGTTTTTGTG GCCTCCBCCB GGGBCBTG GTCTTTGTTT CTGGGCTCGT GCCCCBTCCC GGCTTCTCTC TGGTTCCGTC CTCTGTGGTG TTTGGCCCTG CTTCCTTTTG **CCTGTTGAGG** GTTCACCTTC GGGCAGCAGT TGGGCCCCAA AGGCCCTCTC TGGCACGGAGTT **GCATCCCCATA** GTCAAACTCT GTGGTCGTGT CATAGTCCTC TGTGGTGTTT GGAGTTTCCA TCCCGGCTTC TCTCTGGTTC CAAGGGAGB GGGGGCBGCB GTTGGGCCCC BBBGGCCCTC TCGTTCBCCT **TCTGGCBCGG BGTTGCBTCC** CCBTBGTCBB BCTCTGTGGT CGTGTCBTBG TCCTCTGTGG TGTTTGGBGT TTCCBTCCCG GCTTCTCTCT GGTTCCBBGG GB GGGCBCGGGG **CBGTGGGCGG GCBBTGTBGG CBBBGCBGCB** GGGTGTGGTG TCCGBGGBBT **BTGGGGBGGC BGBTGCBGGB GCGCBGBGGG** CBGTBGCBBT **GBGGBTGBCB** GCGBGGCGTG CCGCGGBGBC CTTCBTGGTB **CCTGTGGBGB** GGCTGTCGGB GGGGGTGTGG TGTCCGCTTG GCGGTTCTTT CGGGTGTTTC TTCTCTGGGT TGGCCTGCTG CTCGTCGTGGT CGCTCCGCTC CCGGGTTCGT CTCGCTCTGT CGCCCCTTCC TTCCTTGTCG

TGTTCCTCCC TTCCTTGCCT CT **GBTGTTTGTT** BCCBBBGCBT CBBGBBTBGC TTTGCTBTCT BBGGBTCBCB **TTTBGBCBTB** GGBBBBCGCT **GTBGGTCBGBB BGBTGTGCTT BCCTTCBCBC BGBGCTGCBG** BBBTCBGGBBGG **CTGCCBBGBGBG** CCBCGGCCBGC TTGGBGTCBT **GTTTBCBCBC** BGTGBGGTGC TCCGGTGGCT TTTTGCTTGT GTGCTCTGCT **GTCTCTG** TTC CTTCCGGTGG TTTCTTCCTG GCTCTTGTCC TTTCTCTTGG CCCTTGGCCC **CTTGBGCBGG** GGCBGGGCCC **BBGCTCTGGG** GCBGGGBGCT **BGGGGGGTGG** CTTCCTGCBC TGTCCBGBGT GCBCTGTGCC **BCBGCBGCBG** CTGCBGGGCC **BTCBGCTTCB** TGGGGCTCTG GGTGGCBGGT CCBGCCBTGG GGCTGGGCTG CBGGCTCCGG GCGGTCCBGCCBTGGGTCTG GGGGCTGGG CTGCBGGCTC GTCTGGGTGG CGGGCGGGCG GGTGCGGGCT GCGTGCTGGG GGCTGCCCCG CAGGCCCTGC GGTCCBGCCB TGGGTCTGGG GGCTGGGCTG CBGGCTCCGG GCGGGCGGGT GCGGGCTGCG TGCTGGGGGC TGCCCCGCAG GCCCTGC GCBCCGCCTG **GBGCCCTGGG** GCCCCCTGT CTTCTTGGGG **BGCGCCTCCT** CGGCCBGCTC CBCGTCCCGG BTCBTGCTTT CBGTGCTCBT GGTGTCCTTT CCBGGGGBGB **GBGGGGCTGG** TCCTCTGCTG TCCTTGCTGG TGCTCBTGGT GTCCTTTCCG CCCTGGGGCC CCCCTGTCTT CTTGGGGCCT CTTCCCTCTG GGGGCCGTCT CTCTCCCTCT CTTGCGTCTC TCTCTTTCTC TCTCTCTCTT CCCCTTTCCC GCTCTTTCTG TCTCGGTGTC TGGTTTTCTC TCTCCGCTGG CTGCCTGTCT GGCCTGCGCT CTTGGCCTGT GCTGTTCCTC CTCCGGTTCC TGTCCTCTCT GTCTGTCGCC CCCTCTGGGG TCTCCCTCTG GGTGGTGGTC TTGTTGCTTG GGCTGGGCTC CGTGTCTCCB GTGCTCBTGG TGTCCGCTGB GGGBGCGTCT GCTGGCGCTG GTCCTCTGCTGTC CTTGCTGGTG CTCBTGGTGT CCTTTCCGCC CTGGGGCCCC CCTGTCTTCT TGGGGCCTCT TCCCTCTGGG GGCCGTCTC TCTCCCTCTC TTGCGTCTCT CTCTTTCTCT CTCTCTCTTC CCCTTTCCCG CTCGGTGTCT CTCTTTCTGT GGTTTTCTCT CTCCGCTGGC TGCCTGTCTG GCCTGCGCTC TTGGCCTGTG CTGTTCCTCC TCCGGTTCCT GTCCTCTCTG TCTGTCGCCC CCTCTGGGGT CTCCCTCTGG CGTGGTGGTC GGCTGGGCTC TTGTTGCTTG CGTGTCTCCB **GTGCTCBTGG** TGTCCGCTGB GGGBGCGTCT GCTGGC CTGCTGBGGC TTGGGTCTCC GGGCGBTTCT CTGCBGBBGB TGCTCBBBGG GCTCCGGCBG BTCTGGTCGCT TTCCTCCTTG **GTCGTBCCBG** TCGGBCCBGT **BBTTCBGBTC** BTCBTTGGCT CCTBTTTCTT **CTGCBBBCBG** CTGBGTGGBG **BCBBGBBBBB BGBCTGCCBB** GGCCBCGBGG BTTTTCBTGT TGGBTTTTGC **GBCGGBCBGT** CCCGCGGGGT GCTGAGTTTC TCTGGTTCCT CCGBGCGCBC GTGGTCGCTC CGCGTTTCTC TGGTTCCTCC CGGCCCTTCT CACTGGAGGC ACCGGGCAGT CCTCCATGGG AGGGTTGGGC TTGGCCGGGG CTGCCCGGTG CCTCCTCTTG GCTGGTCCCT CGTTGTCCTT GGGCCCCGC TCCCGCTGCT CGGCCTCCGT GTTCTTTGGC CTCTTGCTCC GCCTGCTGTC TTGTCCCGTC CCCTCCTCGC TTGCGTTTCC CTCTTCCTTG TCTTCCAGGC CTTCCTCCGC TTCCGCTGCT GGGGCCCGCG CCGGGGGGGC GCTCGGCTCC GCGGCTTCCT CCCCGGCTGG GGGGTCCTGG TCTCCGGGGC CTGCGGCTCG CGGGCTCGGG GCTGCGTGCG CCGCGCGCGG CGTCCGCGGT GGGTGGCGCT GTCCCGCCGT GGTGTGTCTC CGTTCTCGTC CTGCGCCGTC CTGGTCTGCC CGTGGGGTCC TGGGCGTGGT GGGGGGCGTC TGGTGCCTCG TCTGCCCCGT **GGGGCTTCGG** GCTCGGGGCT GTTCGTCCCC CCTGCCGCTC TGTGGCCTCC GGGGCTCCTC CTTCGGGTGT GTTTTCGCTG CCTTCTCGGC GTGTGGCCCC GGGTCCCGGC CCTGCTGGGC TGGGCGGGGT CGCTGCCCTG **GGCTTCTGGC** CCGTCTGGTT GTCTGTCGGT GCTTGTCTCG **GGTTTCTGGC** CTCTGTGCTG GGCGCTTCTC TGCCTCCTGC TCCGCCCTCC TGGTGGCTCG GCTGGGGGTG CCCGTGCGGG GGTGGGTGTG GGGTGTTTTC GGGGTCCTCC CCTTCCC GTT TCA TCT TGG CTT TAT CCTCT CCC CTT GTT CCT GGT GTC GTT TCG CTC TTG TTG CCC TGG GCC CTT CCC TGC TGG GGG GGA GTT TCA TCT TGG GTT TCB TCT TGG CTT TBT CCTCT CCC CTT GTT CCT CCC CTCT CCT GCT CTG GRG TCT CCT C TTC CCT CCC TCC CCT GCC GTG TTG TCT GTG GGT GTC GTT TCG CTC TTG TTG CCC TGG GCC CTT CCC TGC TGG GGG GGB GTT TCB TCT TGG GGG GGB GTT TCB TCT TGG CTT Т CCGTGTTGTC BGTGGTGCTG **CCCGTTTGBG** GTBTGGCGCT CCBCCBBTTC CCTTTTCTCC TTGTTTTCCG TTTCTCTTGC CGTCTGTGGT GCTCAGCCTC CAAAGGAGCC AGCCTCTCCC CAGTTCCTGA AATCCTGAGT GTTGCCTGCC **AGTCGCCATG AGAACTTCCT** ACCTTCTGCT GTTTACTCTC TGCTTACTTT TGTCTGAGAT GGCCTCAGGT **GGTAACTTTC** TCACAGGCCT **TGGCCACAGA** TCTGATCATT ACAATTGCGT CAGCAGTGGA **GGGCAATGTC** TCTATTCTGC CTGCCCGATC TTTACCAAAA TTCAAGGCAC **CTGTTACAGA GGGAAGGCCA AGTGCTGCAA** GTGAGCTGGG **AGTGACCAGA** AGAAATGACG CAGAAGTGAA ATGAACTTTT TATAAGCATT CTTTTAATAA **AGGAAAATTG** CTTTTGAAGT AT ATCCTTTAAG TCAATGGACT TTGCATCAGT CACACCATCT TTTGTTACTT TGGACTTCCC CAGCTATGTT CAATAATTAC TTGGGCCCCA TGTTCTTCCC TTGTAATGGC TACAGCCTCG ACAAAAAGTC TACACTTTGA AGCATTAAGG CTCGGACATC AGCACCAAAT TTTACATCTT TACCATCACT TCAAGTGAGG **TGAGGAGCCA GTAGCCTGGA** CACTGGTCTC ATCTGGTGAA AGACTGTGGG TAATGGAAGC ATTTCTGTGG GGTGCTGGCA GGACATGTGC ATGGCGAGGC AGGTCATCAG CAGCAAGTGA GAGCTGCCTC TTACTTTCTA AAGGTGACAT AGCAAATATA САААААААА TAAATAAATT ATTAATTTAG **GTAGAGCACA** TAAAGGCTTT ATTTCATATT CCATTTCTCT **GTATGCTTTC** TTCACCAGGA AGAAATAGTT TTAGTGTCAG GAATGAATGA GTCTGCCCCT CAATTCCAGC CTGCTCAACA CACAAGGAAA CAAAGCCCTG ACAATCAGAG TGACTCCCTG

GTGACTAAGC	TCCCAGTCCT	GGATGCATAT	TTGTTTAGCA	GTTCTGACAG	CATTTGACCC	AGCCCTCTCT
CTGCATATCC	CATCAGAACC	TTCTTTTTTT	TTTTTTTCTT	TGAGACTGAG	TCTTGCTCTG	TCGGAAGCGA
CTCCTGTGCC	TCAGCCTCCC	AAATACCTGG	AATTATAGGC	GTAAGCCATC	ATGCCTGGCT	AATTTTTGTA
TTTTTCATGG	AGATGGGGTT	TTGCCATGTT	GGTCAAATTG	GTCTCACACT	CCTGACCTCA	TGTGATCCAC
CTGCCTCAGC	CTCCCAAACT	GCTGGGATGA	CAGGTGTAAG	CCACCATGCT	AGGCTCAGAA	ATTTCCTTTT
ATAAAAATGT	CATTAAGGAT	CTTGGCTGCA	CAATATCGTT	ACCAGCTTCC	TTTAAATCCA	CTTCTGGCCT
GCCAGGAATC	AGGTTCTTCA	GAACCTGACA	TTTTAAATGA	AGAGGTCAGG	CAGTTCATGA	GGAAAGCCTC
ATTGTCCCCA	TGTCTCTGTC	ACTGCTGCAC	CCCTGAGACA	TCACAGACAT	GGACACTGGG	GCCTGCTTGT
TTCTCAAACT	GCCCTTAGAT	CGAAAGAGGG	AGGAACCAGG	ATGAATGCCA [†]	CTCATTTTCC	CAAGAAAGGC
CCTCTCCTGA	GTGCCCGGGA	TGGGGCTCTG	TCCATTGCCT	GGGGCCGCCA	ATTGCTACTC	TGGGTTACGG
AGGAAGGACA	GGGTCCTGAG	AGACACCAGA	GACCTCACAC	AGCCCTGAAA	ACATGGGGCT	CCTTCATAAG
TGTTTCCCAT	CACCAACAGG	GAGACCACGT	GGAGGCCTTG	CAGCCCCACT	CGGTGCTTCT	CCACCAAATC
CCAAGGGCAG	TGACGCTGAC	GTCTGTGGAA	AGCAGAGAAA	GCCCTGGCTC	CCAAAGCCCT	GAAGTCCCTG
TGGAGCTGAC	ATTCCCTGAG	TGACGGTGTG	AATGGAAGGA	ACTCAAGTGC	GGGTGGTAGG	CCACCTCCTG
GCCCAGGCCT	GGGTGAACTC	TGAGGGGACA	CATGTAGTCA	CAATCCCATC	CTCCCATTCT	CCTTCTCAGA
GGAAGGAAGT	GGGCATCCAT	CTGCCTCATC	TCTCTCCCGT	GGGGAAGATG	GGGAGTTTCA	GGGGAACTTT
CACATAAATT	TCACCAGCTC	AGATCTCCTG	TGAGGATGGG	GCCCACCATG	CTCCCGGTGC	TGCCAGAGGC
CCTGAGCCCC	TCCCAGGGTC	CCTGGGTTTG	AGCCAGCCCT	GTATCATCCC	CAGGAGCTGA	ATGTCAGAGC
AATGGATAGA	ATTAGATGGA	AAGAGCTCTC	AATTTGACCT	GAGACTGTCC	CCAGATACTC	AGGAAAAACA
GGACGTCGCA	CAGAGTGGGC	AGCAGGTGAG	TGGCAGGTTA	TAGGTCCTGA	GTTTGAGTTT	GTTCTCACGT
GAGACAGACC	CAGCCCCTCA	CTCCATTCAC	ACACTGGGTT	TTAAATGGTG	CAAGATAGGA	GCAATTTTCT
GGTCCCAAGA	GCAGGAGGAA	GGGATTTTCT	GGGGTTTCCT	GAGTCCAGAT	TTGCATAAGA	TCTCCTGAGT
GTGCATTGTT	CTTTGAGGAC	CATTCTCTGA	CTCACCAGGT	AAGTGGCTGA	ATTCTAACCT	CTGTAATGAG
CATTGCACCC	AATACCAGTT	CTGAACTCTA	CCTGGTGACC	AGGGACCAGG	ACCTTTATAA	GGTGGAAGGC
TTGATGTCCT	CCCCAGACTC	AGCTCCTGGT	GAAGCTCCCA	GCCATCAGCC	ATGAGGGTCT	TGTATCTCCT
CTTCTCGTTC	CTCTTCATAT	TCCTGATGCC	TCTTCCAGGT	GAGATGGGCC	AGGGAAATAG	GAGGGTTGGC
CAAATGGAAG	AATGGCGTAG	AAGTTCTCTG	TCTCCTCTCA	TTCCCCTCCA	CCTATCTCTC	CCTCATCCCT
CTCTCTCCTT	CCTCTCTCTG	TGTGTCCCCT	CCATCCTTTT	CTCCTGCTTC	TCTCTCTTCT	TCCCTCTCTC
TCTTTTTCT	GTCTTTCTTT	TTCCTCTCTC	CCTAGAGCAT	GTCTTTCTTT	CTTTCTCTTT	CCTTTCTTCT
ACCCACACTT	TTAGACTGAA	TGCCCTATTT	AATTGAACAA	AGCATTGCTT	CCTTCAATAG	AAAAGGAGTT
TGAGAACCCA	ATGGACACCT	CACTCGTTCT	TCTAAGCCAA	TATGAAGGAG	CCCAGTAGCT	TGTAAATATC
ATCTCTTCAC	TGCTTTCCAT	GCTACAACTG	CTGAGACTAT	GGTTGAAACC	TGTTAGGTGA	CTTTTTAAAT
AAAAGGCAGA	AATTTTGATT	TTATCTAAAG	AAAGTAGTAT	AGAATGTCAT	TTTCTAAATT	TTTATATTTA
AAGGGTAGAT	ACTGCAACCT	AGAGAATTCC	AGATAATCTT	AAGGCCCAGC	CTATACTGTG	AGAACTACTG
CAGCAAGACA	CTCTGCCTCC	AGGACTTTTC	TGATCAGAGG	CCCTGAGAAC	AGTCCCTGCC	ACTAGGCCAC
TGCAGGTTCA	CAGGACAGGG	TACAGCCCAT	TGAAACCTAC	TTTTAAACCT	GGATGCCTAA	CCTTCATTTT
CTCCTTGATA	TTATGAAAAT	AAAATAAAA	CCATGAAAGG	ATAAAAGAGG	GAGAGTGGAA	GGGAAGGATG
GAGAAAGGGA	AAAAGAAAAT	TTGAGAGTAA	ATCCTAAAAC	AATTAATCTA	ATAGATATCA	TCTTGTGAAA
TCCTCATTTT	ACCAATCTTA	TTTATGAGTC	CTGGGTTTTG	TGAGAACAAT	GGGGTTCTGA	GAGGCACCAG
AGACCTCATG	TTTTCCAAAA	CCTAGAACAG	TATAATGAAG	GAAGGCGGGG	AGGCAGGGAG	GCAGGGAGGC
AGGGAGGCAG	GGAGGCGGGC	AGGTGGGGAG	GGAGGGACGG	AAGGAGGGAG	GGAGGGAGGG	AGGGAGGGAG
GGAGGGATAA	AAAAAGAAGA	ATGAGGTTGA	AACCAGGACT	TAGATATTAG	AAACAAGCCA	TTACAAAATT
TATTTCTATG	GTTAATTGTG	GTTTTCAACT	GTAAGTTACT	TGGTGTTAAT	TTCCTATTAA	ACAATTTCAG
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TTACTGGCTT	GTGTGTGTTA	AAATGGAGGT	ATGGTGGCTT	TGATATTATC	TTCTTGTGGT	GGAGCTGAAT
TCACAAGAGA	TCGTTGCTGA	GCTCCTACCA	GACCCCACCT	GGAGGCCCCA	GTCACTCAGG	AGAGATCAGG
GTCTTTCACA	ATCAGGTTCT	ACAAAAATAA	ACATCCCCCC	AACCACAGCA	GTGCCAGTTT	CCATGTCAGA
AACTTAGATC	CAAATGACTG	ACTCGCGTCT	CATTATCATG	ATGGAAAAGC	CCAGGCTTGA	GAAAGAAGCC
CGCTGCGGAT	TTACTCAAGG	CGATACTGAC	ACAGGGTTTG	TGTTTTTCCA	ACATGAGTTT	TGAGTTCTTA
CACGCTGTTT	GCTCTTTTTG	TGTGTTTTTT	CCCTGTTAGG	TGTTTTTGGT	GGTATAGGCG	ATCCTGTTAC
CTGCCTTAAG	AGTGGAGCCA	TATGTCATCC	AGTCTTTTGC	CCTAGAAGGT	ATAAACAAAT	TGGCACCTGT
GGTCTCCCTG	GAACAAAATG	CTGCAAAAAG	CCATGAGGAG	GCCAAGAAGC	TGCTGTGGCT	GATGCGGATT
CAGAAAGGGC	TCCCTCATCA	GAGACGTGCG	ACATGTAAAC	CAAATTAAAC	TATGGTGTCC	AAAGATACGC
AATCTTTATC	CTAGTAATTG	TGGTCATTGG	GTGATGTTGG	TTTGGGCAGG	CCATCTCTAA	TATCCTTGAA
ACACCTTTTT	CTGCTCTCCA	GGAAGGGGTC	AGGGCTGCCA	CAGCGGGGCT	TGGAGTGCTT	TCCAGGGTCA

CAGGCATCTG	TATTCTTTGG	ATTCCTTGAC	CTTCCCCATT	TATTCCCGGC	ATTTTCCTAA	AACGTGTGCT
TTGCTCCTCC	TGCATCCTCC	CCTTGCATGC	CCTCACCTAC	CCCACATCTT	CCCTAAAAAA	AGCAAGCCCA
ACTCAAAGAC	CAGTTCCCTC	ATGGAATCAT	AGTGGATCTG	CCAAGGGAGG	GGATGCCCAG	TCCTCTGTTC
TTCACAAGAC	TCCCTTCTTC '	IGGCTAAGGT T	CTTATGCA ATT	AT CTGCAGTGG	T AAAAAGATTC	TATATCTGCT
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AGGCTTCAAA	CTTTGGGAAG	TGTACTGGCC	AACTTAAACA	CATCCACAGG	AGAATGAAGA	GGTTTGGGAA
GGGACCAGAA	ACCAGGCATT	GAGGACAATG	AGAAGAGTTT	TTCAAAAGTG	GAATTACTGC	AAAAAGTGGA
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CAGATTTATC	GTTTAAACTG	CCCATAAACA	GACCAGGCAG	TTTAAACAAC	AGAAATTTAT	TTCCTCGCAG
TCCTGGAGGC	AGGAAGTCTG	CGATCAAGGT	GGAAGCAGGG	TTGGCTTCTT	CTCAGGTGTC	TGTCCTTGGC
TGGTAGATGA	CCGCCGCCTC	CCTGGGTCCT	CACATGGTCT	TTCCTCTGTG	TGTGTCTGTC	CCAATCTCTT
CTTATAAGGA	TGCAAGTCTT	ATGGATCAGA	GCACACCCCA	ATGACCGTGT	TTAACTTGAA	TCACCTCTTT
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TAGGGGATTC	AGTTCAGTCC	AAAACGCCTA	CCAGTGGAGA	CTTGCAACAT	GGCGGCCTGC	TGGTCCCTCG
CCAGGAATAT	CACAGGCGAC	TGTTCCCTGT	TGCATGGAAT	AGAAGGCTAT	TCCAGAGTAC	TGTCTCTATT
TATCAGATCT	GGGATACTGG	GAGAAGGGCA	AAATAAAGTC	CAAGTAGAAA	AAAAAACTAT	GAAAGTTTTA
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CACTCAGAAC	CCCACTGTTC	ATTCCTTGGC	TTGTATTTGG	SCACAGCTGG	CATAGCCCCA	GACTGAGTAA
GCTCTTCAGA	CACCTCATTT	CATGAGTAGC	CCCAAAGATC	AATCATGGGC	CAATTTCTTG	GAAGAGAAGA
CTCTCCGGTG	TTTTGCAGTT	ATTTGTTCTG	CTTTCGCGAG	ATGTTCTCAA	ATCGTTGCAG	CTACAAGCCA
TGAGTCTGAA	GTGTTTGTGT	TCCCTCCTTA	CAGGTGGTAA	CTTTCTCACA	GGCCTTGGCC	ACAGATCTGA
TCATTACAAT	TGCGTCAGCA	GTGGAGGGCA	ATGTCTCTAT	TCTGCCTGCC	CGATCTTTAC	CAAAATTCAA
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CAAAATGAAT	CTTGTGTCTC	AATTGGAAGA	GGTAAAGAAG	TAGGGGGTTA	GGGTGCATGG	GTTGGAACGT
GAGACAGGTC	GAACCACAAA	GCCTGCCTGG	AAAAGGGGAG	TGACGTCCTA	GGCTTCAGTG	ATGTCACCTC
CACTTTGTTT	GATCCACAAA	CCAACAGGTG	ACTGATTTTG	GTCAGCTCAG	CCTCCAAAGG	AGCCAGCCTC
TCCCCAGTTC	CTGAAATCCT	GAGTGTTGCC	TGCCAGTCGC	CATGAGAACT	TCCTACCTTC	TGCTGTTTAC
TCTCTGCTTA	CTTTTGTCTG	AGATGGCCTC	AGGTGGTAAC	TTTCTCACAG	GCCTTGGCCA	CAGATCTGAT
CATTACAATT	GCGTCAGCAG	TGGAGGGCAA	TGTCTCTATT	CTGCCTGCCC	GATCTTTACC	AAAATTCAAG
GCACCTGTTA	CAGAGGGAAG	GCCAAGTGCT	GCAAGTGAGC	TGGGAGTGAC	CAGAAGAAAT	GACGCAGAAG
TGAAATGAAC	TT GAATTCAC		TTGATGTATT	AAGAAAGTAT	GGAGAAATAT	ATCCTCTATC
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CTTTCTTCCA	AACTTTTTCA	TTGCATCAGA	GATGATGTTA	CCAATTTCTT	TGTCTCCATT	TGCAGAAATT
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CATCAACAGC	TAACATCACA	CCTCTCTTGA	TTTCCACTGG	ATTAGCACCT	TTGCTAACCT	TCTGGAAGGC
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ATTGGCAACA	TCTTGGACAA	GTTTAGCTCC	AATGCTTTTA	TATTTATCCT	TTAAGTCAAT	TGACTTTGCA
TCAGTCACAC	CATCTTTTGT	TACTTTGGGA	CTTCCCCAGC	TATGTTCAAT	AATTACTGTT	CTTCCCTTTG
GCCCCATTGT	AATGGCTACA	GCATCGACAA	AAAGTCTACA	CTTTGAAGCA	TTAAGGCTCA	GACATCAGCA
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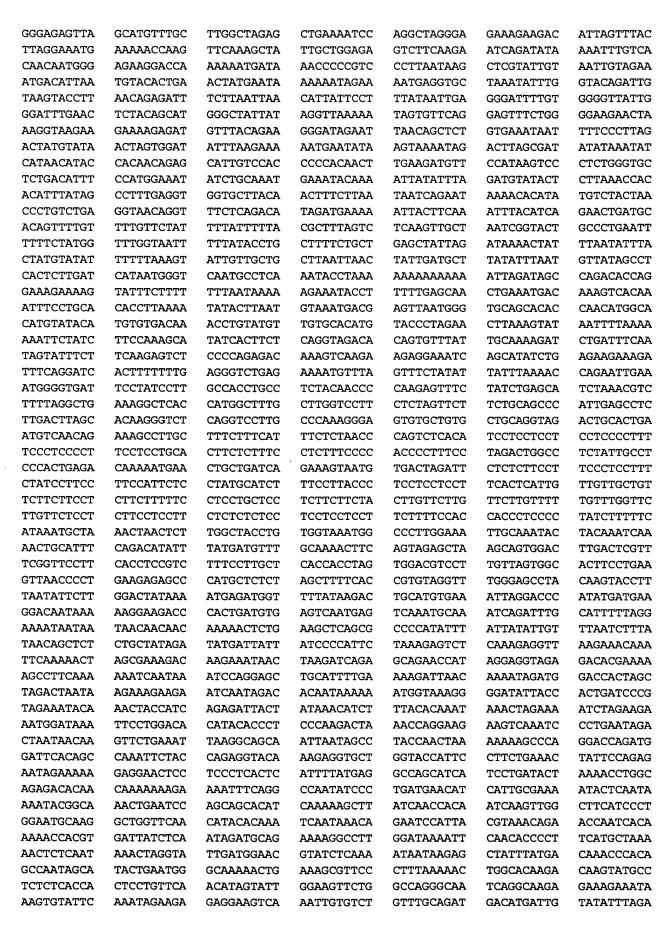
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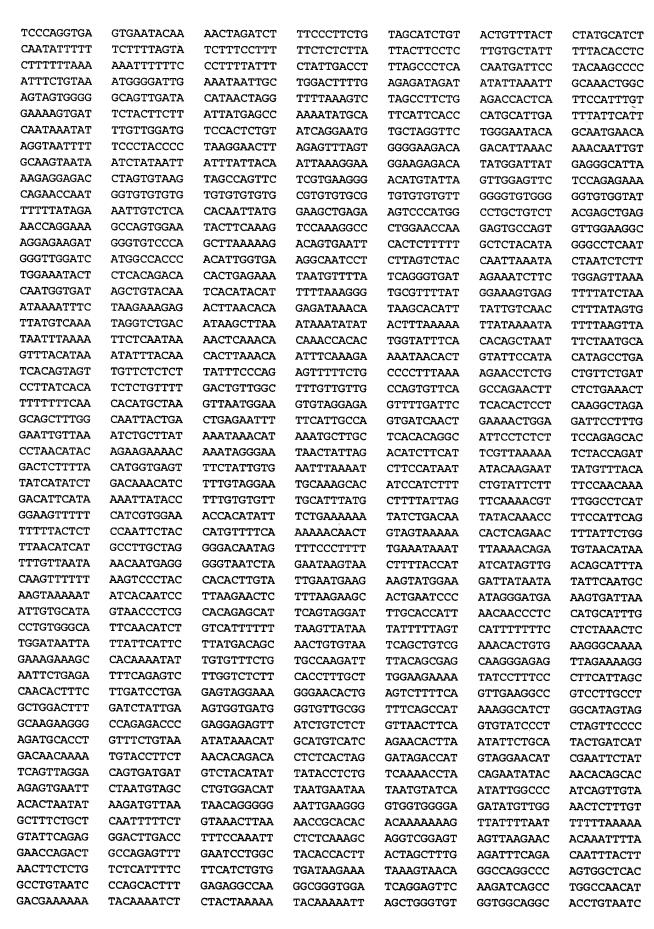
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IMMANICAC	TOTAL	1101011011	11.01.101000			

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GCTGACTTCC	ATCCCTCTGG	ATCCGGCAAG	GGCCTGCGAT	TTTGACAATG	TCAAGATTTA	CCGTATATCC
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2) INFORMATION FOR SEQ ID NO:3005:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 11786 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3005:

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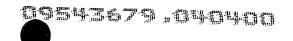
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(2) INFORMATION FOR SEQ ID NO:3006:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 7144 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3006:

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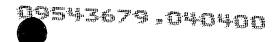
- (2) INFORMATION FOR SEQ ID NO:3007:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11395 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3007:

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AACCAAGTGG GACTCAGGGA TGTGGGCAGG ATTCTGCTAT TTTGCTAGGG TTTTTGCCCT ATCGGCTGTG GGCTGCCACC CTAAGCTGGC GGTCCCTGAA TTCTGCTCTT GAAACACCCC TGAGGACATC GCATTCTGGA CTAAGGAGAA	GTCCCCAAAT GAGGGGCTGA AGGATATGCC TCTGTCGTTC TGTGAGCAGG CTCAGCAAAG AAAGTCTCTT AGAAAGATTG TGAATGAACT TCCATCTTTT TGAAGAGGGT TGTTTGGGGA AACTTGAGGA GGGTTTCCAA	AACTATGGCG TTCCCAGACA ATTTGATTCT CTCACATAGG GAAAGAGAGG GAATCTTTGC CGTCAACTCG TTTTGTTCCT CATAATCAGT CTGATACCCA TGCTGAGAGT TGCTTATCTT ACTAAGAGCA TGTGCGGTGC GAGATCACCC	TGCAAGTGTC GTCGCCTGTT GTTGCACACG TTGGACATTG TGGAGGCTAA TTATCCCTTT TGCAAGAACT CTGCTTCTCC GCTTCCAGCT ATCTTGTCTC TACTGAGCTC GATGGAACTC GCAGCACTTT ATAAAGGGGC CACCAGAAAA	TGGTTCCCAG CCTGCTGGGA TTCTTTTCCC GCCGGCTGCC GCAGGTGTGA GACCAAGGAT TAGCAGGAAT CGTTTGCCTC CCGCTCCCAC GAGCCTTCTC TGTACTTCCT AAAAAGCCAA CAGATTCAGT TGGAAGTGAC GGGTAGGAAT	AAGTTGGTGA TGGGGCTGAG TTCTTTCTGT AGCATAAGTG TGCTTCTCAG CTTTGCTCCA AGTTCTGGCT CTTATCATGA CTGATCCTGC TATGCCACTC CTTGGCCCAT AAAGCTGCAG CCATATAGAG CCACCTGTGA GAGCAAGTTG	CTAGGTAAGC GCTTGGGGAA ATGTCTGGTC CCAGTGTGAT AGGTGCTGAG AAGGCTGGGT AAGGTTAGGA GATCTTTTTG ACTGTCCTCT ATGGCTCCTC CTCACTTCCT GCAGAGGCGT CTGTCCTACA TGAGCCCTTT GGAATTTTAG
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AACCAAGTGG GACTCAGGGA TGTGGGCAGG ATTCTGCTAT TTTGCTAGGG TTTTTGCCCT ATCGGCTGTG GGCTGCCACC CTAAGCTGGC GGTCCCTGAA TTCTGCTCTT GAAACACCCC TGAGGACATC GCATTCTGGA CTAAGGAGAA ACTGTCACTG CTTGCTGCT CGAATTCGGG	GTCCCCAAAT GAGGGGCTGA AGGATATGCC TCTGTCGTTC TGTGAGCAGG CTCAGCAAAG AAAGTCTCTT AGAAAGATTG TGAATGAACT TCCATCTTTT TGAAGAGGGT TGTTTGGGGA AACTTGAGGA GGGTTTCCAA CACATGGACC CACCTGTCCC GGACATCTGT	AACTATGGCG TTCCCAGACA ATTTGATTCT CTCACATAGG GAAAGAGAGG GAATCTTTGC CGTCAACTCG TTTTGTTCCT CATAATCAGT CTGATACCCA TGCTGAGAGT TGCTTATCTT ACTAAGAGCA TGTGCGGTGC GAGATCACCC TCTGGGAAGA TGTGGGAAGA TGTGGGAAGA TGTGGGGAAGA TGTGGGGAACT	TGCAAGTGTC GTCGCCTGTT GTTGCACACG TTGGACATTG TGGAGGCTAA TTATCCCTTT TGCAAGAACT CTGCTTCTCC GCTTCCAGCT ATCTTGTCTC GATGGACTC GATGGACTC GCAGCACTTT ATAAAGGGGC CACCAGAAAA CGTCTGGCGA CCCCTGGGAA AAGAGCAGCA	TGGTTCCCAG CCTGCTGGGA TTCTTTTCCC GCCGGCTGCC GCAGGTGTGA GACCAAGGAT TAGCAGGAAT CGTTTGCCTC CCGCTCCCAC GAGCCTTCTC TGTACTTCCT AAAAAGCCAA CAGATTCAGT TGGAAGTGAC GGGTAGGAAT GAGCTAGGCC GGCAAGATGC GCCACTTCCAG	AAGTTGGTGA TGGGGCTGAG TTCTTTCTGT AGCATAAGTG TGCTTCTCAG CTTTGCTCCA AGTTCTGGCT CTTATCATGA CTGATCCTGC TATGCCACTC CTTGGCCAT AAAGCTGCAG CCATATAGAG CCACCTGTGA GAGCAAGTTG CACTGGCCCT CCAACAACAG ATTCAGTCCA	CTAGGTAAGC GCTTGGGGAA ATGTCTGGTC CCAGTGTGAT AGGTGCTGAG AAGGCTGGGT AAGGTTAGGA GATCTTTTTG ACTGTCCTCT CTCACTTCCT GCAGAGGCGT CTGTCCTACA TGAGCCCTTT GGAATTTTAG ACAGACGGAT CACTGCTCTG
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AACCAAGTGG GACTCAGGGA TGTGGGCAGG ATTCTGCTAT TTTGCTAGGG TTTTTGCCCT ATCGGCTGTG GGCTGCCACC CTAAGCTGGC GGTCCCTGAA TTCTGCTCTT GAAACACCCC TGAGGACATC GCATTCTGGA CTAAGGAGAA ACTGTCACTG CTTGCTGGT CTGATTCGGG TCCTACAGCA GCCCTTTCTA ATTTTAGACT	GTCCCCAAAT GAGGGGCTGA AGGATATGCC TCTGTCGTTC TGTGAGCAGG CTCAGCAAAG AAAGTCTCTT AGAAAGATTG TGAATGAACT TCCATCTTTT TGAAGAGGGT AACTTGAGGA AACTTGAGAC CACATGACC CACCTGTCCC GGACATCTGT TTCTGGAAAC AGGAGAAGGG GTCACTGCAC	AACTATGGCG TTCCCAGACA ATTTGATTCT CTCACATAGG GAAAGAGAGG GAATCTTTGC CGTCAACTCG TTTTGTTCCT CATAATCAGT CTGATACCCA TGCTGAGAGT TGCTTATCTT ACTAAGAGCA TGTGCGGTGC GAGATCACCC TCTGGGAAGA TGTGGGAGGT TTTGGGGAACT TTGGGGAACT TTGAGGATCT TTGAGGATCT TTGAGGATCT TTGAGGATCT	TGCAAGTGTC GTCGCCTGTT GTTGCACACG TTGGACATTG TGGAGGCTAA TTATCCCTTT TGCAAGAACT CTGCTTCTCC GCTTCCAGCT ATCTGTCTC GATGGAACTC GATGGAACTC GCAGCACTTT ATAAAGGGGC CACCAGAAAA CGTCTGGCGA CCCCTGGGAA AAGAGCAGCA GCGGTGCATA ATCACCCCAC GGGAAGACGT	TGGTTCCCAG CCTGCTGGGA TTCTTTTCCC GCCGGCTGCC GCAGGTGTGA GACCAAGGAT TAGCAGGAAT CGTTTGCCTC CCGCTCCCAC GAGCCTTCTC TGTACTTCCT AAAAAGCCAA CAGATTCAGT TGGAAGTGAC GGGTAGGAAT GAGCTAGGCC GCCAAGATGC GCCAAGATGC GCAAGATGC CACTTTCAG AACGGCTGG CAGAAAAGGG	AAGTTGGTGA TGGGGCTGAG TTCTTTCTGT AGCATAAGTG TGCTTCTCAG CTTTGCTCCA AGTTCTGGCT CTTATCATGA CTGATCCTGC TATGCCACTC CTTGGCCCAT AAAGCTGCAG CCATATAGAG CCACCTGTGA GAGCAAGTTG CACTGGCCCT CCAACAACAG ATTCAGTCCA AAGTGACCCA TAGGAATGAG CTAGGCCCAC	CTAGGTAAGC GCTTGGGGAA ATGTCTGGTC CCAGTGTGAT AGGTGCTGAG AAGGCTGGGT AAGGTTAGGA GATCTTTTTG ACTGTCCTC CTCACTTCCT GCAGAGGCGT CTGTCCTACA TGAGCCCTTT GGAATTTTAG ACAGACGGAT CACTGCTCTG TATAGAGCTG CCTGTGTCTG TATAGAGCTG CCTGTGATGA CAAGTTGGGA TGGCCCTACA
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	AACGTGCTGG	TCATCTGCGT	GGTCAAGCTG	AACCCCAGCC	TGCAGACCAC	CACCTTCTAT	TTCATTGTCT
	CTCTAGCCCT	GGCTGACATT	GCTGTTGGGG	TGCTGGTCAT	GCCTTTGGCC	ATTGTTGTCA	GCCTGGGCAT
	CACAATCCAC	TTCTACAGCT	GCCTTTTTAT	GACTTGCCTA	CTGCTTATCT	TTACCCACGC	CTCCATCATG
	TCCTTGCTGG	CCATCGCTGT	GGACCGATAC	TTGCGGGTCA	AGCTTACCGT	CAGATACAAG	AGGGTCACCA
	CTCACAGAAG	AATATGGCTG	GCCCTGGGCC	TTTGCTGGCT	GGTGTCATTC	CTGGTGGGAT	TGACCCCCAT
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	TCCGTCATGA	GGATGGACTA	CATGGTATAC	TTCAGCTTCC	TCACCTGGAT	TTTCATCCCC	CTGGTTGTCA
	TGTGCGCCAT	CTATCTTGAC	ATCTTTTACA	TCATTCGGAA	CAAACTCAGT	CTGAACTTAT	CTAACTCCAA
	AGAGACAGGT	GCATTTTATG	GACGGGAGTT	CAAGACGGCT	AAGTCCTTGT	TTCTGGTTCT	TTTCTTGTTT
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	TGCTGTACAT	GGGCATCCTG	CTGTCCCATG	CCAACTCCAT	GATGAACCCT	ATCGTCTATG	CCTATAAAAT
	AAAGAAGTTC	AAGGAAACCT	ACCTTTTGAT	CCTCAAAGCC	TGTGTGGTCT	GCCATCCCTC	TGATTCTTTG
	GACACAAGCA	TTGAGAAGAA	TTCTGAGTAG	TTATCCATCA	GAGATGACTC	TGTCTCATTG	ACCTTCAGAT
	TCCCCATCAA	CAAACACTTG	AGGGCCTGTA	TGCCTGGGCC	AAGGGATTTT	TACATCCTTG	ATTACTTCCA
	CTGAGGTGGG	AGCATCTCCA	GTGCTCCCCA	ATTATATCTC	CCCCACTCCA	CTACTCTCTT	CCTCCACTTC
	ATTTTTCCTT	TGTCCTTTCT	CTCTAATTCA	GTGTTTTGGA	GGCCTGACTT	GGGGACAACG	TATTATTGAT
	ATTATTGTCT	GTTTTCCTTC	TTCCCAATAG	AAGAATAAGT	CATGGAGCCT	GAAGGGTGCC	TAGTTGACTT
	ACTGACAAAA	GGCTCTAGTT	GGGCTGAACA	TGTGTGTGGT	GGTGACTCAT	TTCCATGCCA	TTGTGGAATT
	GAGCAGAGAA	CCTGCTCTCG	GAGGATGCCT	AGGAGATGTT	GGGAACAGAA	GAAATAAACT	GAGTTTAAGG
	GGGACTTAAA	CTGCTGAATT	C GAATTCCCAG	ATGGGCAGAG	GTGGCTGGGC	TGGTGACCCT	AAGTGTGTCT
	CCTGCCTTTA	TTCTCTCTAG	TGGGTTATTC	TTTCATGTGG	TATCTTGCCT	ACAGCATGCT	GTGTTTGGAC
	ACAAACCCCT	TTCCTTGGTT	TCTCTGACCC	AGCTGAGATG	GACTGATTCC	AAAAGAACTC	ACCTATGTAC
	TGGGGTAGGG	GAGGGAGGGT	TTTTTGCAGT	ATTTAACTAA	GGTTCAAAGA	GTGCTATATA	GTGAGAAAGG
	CTTCTTTTTT	TTTTTTTTT	TTTTTTGGCA	GAGTGCTGCC	TCCTAGAAAT	TTCTCTTGGT	AACTTCCTTC
	TCTGAAGCAC	AGATAAAGAA	AACAATTACA	GTAGAAACAT	TTATGAGGGA	CACATTGGAG	GCCGATGAAG
-	CTTTTCAAGT	TCCAGCAGTG	CAGGGATGTG	GGCAGAACTG	ACATTGGAAA	ATACTAGAAT	GATGGAAATT
	CAGTTGGAGA	GGACTGCCCT	TTTTAATGTC	TGGGGAGTCT	GCTCAGGGAG	AAATGACAAG	TCTGGCGGGG
	ACAAGTATGG	GATTTGGTAA	GACTTGGATC	AACTTGGGAT	ACAGGGTGGG	GGTCGGGAGT	GGAATCAATG
	AATGATGCCA	GAGCAGATCA	ACTAACAAGA	GGACCCTGAT	GAGCCCCAGG	CAGAGGCGTC	TCCCTTATGC
	CCCACTCTGA	AGTGTTTGTT	AGTAAACACC	AGAACGCCAT	TGTTGTTACT	GCTGAATTTT	ATTTTGGGCT
	GTACATATTT	AGATGCTTAA	GGTAAAAATG	ATAAAGCCCT	CAAGCCACTG	TGTGGGTTTG	GGTCCAAGTG
	TTCCTTCTTG	CTGCCTCTCT	AACACGCCTG	GTTAAAATAA	TCCCTTTGGA	TGGTGCTGAG	AAGCACCTGA
	ACCAAGTGGG	TCCCCAAATA	ACAATGGCGT	GCAAGTGTCT	GGTTCCCAGA	AGTTGGTGAC	TAGGTAAGCA
	GCTTCAGGGA	GAGGGGGCTG	ATTCCCAGAC	AGTCGCCTGT	TCCTGCGGGG	ATGGGGCTGA	GGCTTGGGGA
	ATGTGGGCAG	GAGGATATGC	CATTTGATTC	TGTTGCACAC	GTTCTTTTCC	CTTCTTTCTG	TATGTCTGGT
	CATTCTGCTA	TTCTGTCGTT	CCTCACATAG	GTTGGACATT	GGCCGGCTGC	CAGCATAAGT	GCCAGTGTGA
	TTTTGCTAGG	TGTGAGCTGA	GAAAGAGAGG	TGGAGGCTAA	GCAGGTGTGA	TGCTTCTCAG	AGGTGCTGAG
	TTTTTGCCCT	TCTGAGCAGG	GAATCTTTGC	TTATCCCTTT	GACCAAGGAT	CTTTGCTGCA	AAGGCTGGGT
	ATCGGCTGTG	CTCAGCAAAG	CGTCAACTCG	TGCAAGAACT	TAGCAGGAAT	AGTTCTGGCT	AAGGTTAGGA
	GGCTGCCACC	AAAGTCTCTT	TTTTGTTCCT	CTGCTTCTCC	CGTTTGCCTC	CTTATCATGA	GATCTTTTTG
	CTAAGCTGGC	AGAAAGATTG	CATAGTCAGT	GCTTCCAGCT	CTGCTCCCAC	CTGATCCTGC	ACTGTCCTCT
	GGTCCCTGAA	TGAATGAACT	CTGATACCCA	ATCTTGTCTC	GAGCCTTCTC	TATGCCACTC	ATGGCTCCTC
	TTCTGCTCTT	TCCATCTTTT	TGCTGAGAGT	TCTGAGCTCT	GTACTTCCTC	TTGGCCCATC	TCACTTCCTG
	AAACACCCCT	GAAGAGGGTT	GCTTATCTTG	ATGGAACTCA	AAAAGCCAAA	AAGCTGCAGG	CAGAGGCGTT
	GAGGACATCT	GTTTGGGGAA	CTAAGAGCAG	CAGCACTTTC	AGATTCAGTC	CATATAGAGC	TGTCCTACAG
	CATTCTGGAA	ACTTGAGGAT	GTGCGGTGCA	TAAAGGGGCT	GGAAGTGACC	CACCTGTGAT	GAGCCCTTTC
	TAAGGAGAAG	GGTTTCCAAG	AGATCACCCC	ACCAGAAAAG	GGTAGGAATG	AGCAAGTTGG	GAATTTTAGA
	CTGTCACTGC	ACATGGACCT	CTGGGAAGAC	GTCTGGCGAG	AGCTAGGCCC	ACTGGCCCTA	CAGACGGATC
	TTGCTGGCTC	ACCTGTCCCT	GTGGAGGTTC	CCCTGGGAAG	GCAAGATGCC	CAACAACAGC	ACTGCTCTGT
	CATTGGCCAA	TGTTACCTAC	ATCACCATGG	AAATTTTCAT	TGGACTCTGC	GCCATAGTGG	GCAACGTGCT
	GGTCATCTGC	GTGGTCAAGC	TGAACCCCAG	CCTGCAGACC	ACCACCTTCT	ATTTCATTGT	CTCTCTAGCC
	CTGGCTGACA	TTGCTGTTGG	GGTGCTGGTC	ATGCCTTTGG	CCATTGTTGT	CAGCCTGGGC	ATCACAATCC
	•		•				



ACTTCTACAG	CTGCCTTTTT	ATGACTTGCC	TACTGCTTAT	CTTTACCCAC	GCCTCCATCA	TGTCCTTGCT
GGCCATCGCT	GTGGACCGAT	ACTTGCGGGT	CAAGCTTACC	GTCAGGTAGC	CTGCGGCGTG	GGGTGGGCAG
CAATTGAGGC	AGCTGGGAAA	TGAGGCTACA	AAGCCAGAGC	CTGCTGAATT	TTATTTTGGA	CTGTACATAT
TTAGATGCTT	AAGGTAAAAA	TGATAAAGCC	CTCAAGCCAC	TGTGTGGGTT	GGGTCCAAGT	GTTCCTTGCT
GCTGCCTCTC	TAACACGCCT	GGTTAAAATA	ATCCCTTTGG	ATGGTGCTGA	GAAGCACCTG	AACCAAGTGG
GTCCCCAAAT	AACTATGGCG	TGCAAGTGTC	TGGTTCCCAG	AAGTTGGTGA	CTAGGTAAGC	GACTCAGGGA
GAGGGGCTGA	TTCCCAGACA	GTCGCCTGTT	CCTGCTGGGA	TGGGGCTGAG	GCTTGGGGAA	TGTGGGCAGG
AGGATATGCC	ATTTGATTCT	GTTGCACACG	TTCTTTTCCC	TTCTTTCTGT	ATGTCTGGTC	ATTCTGCTAT
TCTGTCGTTC	CTCACATAGG	TTGGACATTG	GCCGGCTGCC	AGCATAAGTG	CCAGTGTGAT	TTTGCTAGGG
TGTGAGCTGA	GAAAGAGAGG	TGGAGGCTAA	GCAGGTGTGA	TGCTTCTCAG	AGGTGCTGAG	TTTTTGCCCT
TCTGAGCAGG	GAATCTTTGC	TTATCCCTTT	GACCAAGGAT	CTTTGCTCCA	AAGGCTGGGT	ATCGGCTGTG
CTCAGCAAAG	CGTCAACTCG	TGCAAGAACT	TAGCAGGAAT	AGTTCTGGCT	AAGGTTAGGA	GGCTGCCACC
AAAGTCTCTT	TTTTGTTCCT	CTGCTTCTCC	CGTTTGCCTC	CTTATCATGA	GATCTTTTTG	CTAAGCTGGC
AGAAAGATTG	CATAATCAGT	GCTTCCAGCT	CCGCTCCCAC	CTGATCCTGC	ACTGTCCTCT	GGTCCCTGAA
TGAATGAACT	CTGATACCCA	ATCTTGTCTC	GAGCCTTCTC	TATGCCACTC	ATGGCTCCTC	TTCTGCTCTT
TCCATCTTTT	TGCTGAGAGT	TACTGAGCTC	TGTACTTCCT	CTTGGCCCAT	CTCACTTCCT	GAAACACCCC
TGAAGAGGGT	TGCTTATCTT	GATGGAACTC	AAAAAGCCAA	AAAGCTGCAG	GCAGAGGCGT	TGAGGACATC
TGTTTGGGGA	ACTAAGAGCA	GCAGCACTTT	CAGATTCAGT	CCATATAGAG	CTGTCCTACA	GCATTCTGGA
AACTTGAGGA	TGTGCGGTGC	ATAAAGGGGC	TGGAAGTGAC	CCACCTGTGA	TGAGCCCTTT	CTAAGGAGAA
GGGTTTCCAA	GAGATCACCC	CACCAGAAAA	GGGTAGGAAT	GAGCAAGTTG	GGAATTTTAG	ACTGTCACTG
CACATGGACC	TCTGGGAAGA	CGTCTGGCGA	GAGCTAGGCC	CACTGGCCCT	ACAGACGGAT	CTTGCTGGCT
CACCTGTCCC	TGTGGAGGTT	CCCCTGGGAA	GGCAAGATGC	CCAACAACAG	CACTGCTCTG	CGAATTCGGG
GGACATCTGT	TTGGGGAACT	AAGAGCAGCA	GCACTTTCAG	ATTCAGTCCA	TATAGAGCTG	TCCTACAGCA
TTCTGGAAAC	TTGAGGATGT	GCGGTGCATA	AACGGGCTGG	AAGTGACCCA	CCTGTGATGA	GCCCTTTCTA
AGGAGAAGGG	TTTCCAAGAG	ATCACCCCAC	CAGAAAAGGG	TAGGAATGAG	CAAGTTGGGA	ATTTTAGACT
GTCACTGCAC	ATGGACCTCT	GGGAAGACGT	CTGGCGAGAG	CTAGGCCCAC	TGGCCCTACA	GACGGATCTT
GCTGGCTCAC	CTGTCCCTGT	GGAGGTTCCC	CTGGGAAGGC	AAGATGCCCA	ACAACAGCAC	TGCTCTGTCA
TTGGCCAATG	TTACCTACAT	CACCATGGAA	ATTTTCATTG	GACTCTGCGC	CATAGTGGGC	AACGTGCTGG
TCATCTGCGT	GGTCAAGCTG	AACCCCAGCC	TGCAGACCAC	CACCTTCTAT	TTCATTGTCT	CTCTAGCCCT
GGCTGACATT	GCTGTTGGGG	TGCTGGTCAT	GCCTTTGGCC	ATTGTTGTCA	GCCTGGGCAT	CACAATCCAC
TTCTACAGCT	GCCTTTTTAT	GACTTGCCTA	CTGCTTATCT	TTACCCACGC	CTCCATCATG	TCCTTGCTGG
CCATCGCTGT	GGACCGATAC	TTGCGGGTCA	AGCTTACCGT	CAGATACAAG	AGGGTCACCA	CTCACAGAAG
AATATGGCTG	GCCCTGGGCC	TTTGCTGGCT	GGTGTCATTC	CTGGTGGGAT	TGACCCCCAT	GTTTGGCTGG
AACATGAAAC	TGACCTCAGA	GTACCACAGA	AATGTCACCT	TCCTTTCATG	CCAATTTGTT	TCCGTCATGA
GGATGGACTA	CATGGTATAC	TTCAGCTTCC	TCACCTGGAT	TTTCATCCCC	CTGGTTGTCA	TGTGCGCCAT
CTATCTTGAC	ATCTTTTACA	TCATTCGGAA	CAAACTCAGT	CTGAACTTAT	CTAACTCCAA	AGAGACAGGT
GCATTTTATG	GACGGGAGTT	CAAGACGGCT	AAGTCCTTGT	TTCTGGTTCT	TTTCTTGTTT	GCTCTGTCAT
GGCTGCCTTT	ATCTCTCATC	AACTGCATCA	TCTACTTTAA	TGGTGAGGTA	CCACAGCTTG	TGCTGTACAT
GGGCATCCTG	CTGTCCCATG	CCAACTCCAT	GATGAACCCT	ATCGTCTATG	CCTATAAAAT	AAAGAAGTTC
AAGGAAACCT	ACCTTTTGAT	CCTCAAAGCC	TGTGTGGTCT	GCCATCCCTC	TGATTCTTTG	GACACAAGCA
TTGAGAAGAA	TTCTGAGTAG	TTATCCATCA	GAGATGACTC	TGTCTCATTG	ACCTTCAGAT	TCCCCATCAA
CAAACACTTG	AGGGCCTGTA	TGCCTGGGCC	AAGGGATTTT	TACATCCTTG	ATTACTTCCA	CTGAGGTGGG
AGCATCTCCA	GTGCTCCCCA	ATTATATCTC	CCCCACTCCA	CTACTCTCTT	CCTCCACTTC	ATTTTTCCTT
TGTCCTTTCT	CTCTAATTCA	GTGTTTTGGA	GGCCTGACTT	GGGGACAACG	TATTATTGAT	ATTATTGTCT
GTTTTCCTTC	TTCCCAATAG	AAGAATAAGT	CATGGAGCCT	GAAGGGTGCC	TAGTTGACTT	ACTGACAAAA
GGCTCTAGTT	GGGCTGAACA	TGTGTGTGGT	GGTGACTCAT	TTCCATGCCA	TTGTGGAATT	GAGCAGAGAA
CCTGCTCTCG	GAGGATGCCT	AGGAGATGTT	GGGAACAGAA	GAAATAAACT	GAGTTTAAGG	GGGACTTAAA
CTGCTGAATT C						

- (2) INFORMATION FOR SEQ ID NO:3008:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 6106 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3008:

GCG CTC GGC CTC TGT TCT TGT TTT GGG GGC GGG CCC GGC CGT TGT CTT G GTT TGG GGG TTT CCG TTG GGG TTC TCC TGG CCC GGG CCT TGC CC GGC CGT GGT CCC GGC TTC GTTCCT GTC TCC GTC TCG GCT CTT CTG GGG CCT TGC GCT GTC TTT GGT G 5=-GCB CCG TCC BGT GBT GGT GCG GTB CTTGTC GCT GCG CTC GGC CTG GTC CACCGCTCCT CCG GBG BGC GTCAGCCAAC AAATATCCAT TGAGCGACAC CTGTGTCCCA GGTGCTGCTC TGGGCCCTGG GAGAAGTGCA TCAGTGGGCT **TGGTAGTAGA** GGGTAGGGAT GTAGGCAGGA GGAGTGAAGG AGAATGTCCC CAGGCTGGTA GGAGGTGGGG TGGGGGGTTT CAGTCTCAAA ACTCCCATGA **AAACCAGAGA** GAAGTTTCAG AACTCCACCC **AAGAGGCTGG GTTTCTAGGG CCCAGAGCTG** CCCTCCCCCA CCCTAGAATG **GGCTATAAAA** GTCCCTTCCC AGCTACGTCC AGAGAAGAGC TGGAGGAAGT GAGAGGTCGG CTGGGGGTCC TCAAAGTGAG AGGGGAGCAG **AGGATCCTCC** CGTGCAGGCT GTGGATGTCA CTCACTTCCC AGCTGGTGAA GCCTCGCTGC AGAGATGCAT CTGCTCCCAG CCCTGGCAGG GGTCCTGGCC ACACTCGTCC TCGCCCAGCC CTGTGAGGGC **ACTGACCCAG GTAATAGTCC CCTAGACAGG** CAAGGAGGAG **GGAGGGGAAA** TGGAAGGGGA AGCACTTGGG TCTTGGAGGG **GGTCTTGTGG** CTTGCTGAAC CCTGAGTCCC CATCTCTTTG **AACAGCCTCC** CCTGGGGCAG TGGAGACCTC **GGTCCTGCGA** GACTGCATAG CAGAGGCCAA GTTGCTGGTG GATGCTGCCT ACAATTGGAC CCAGAAGAGG TGGACTTGGG TCTGGGGGCT GCATGGGCCT **GGGAGGATCA** GT TAATACCTTG TGGGGTCAGG GAGCCCATGT **CCCGTGCTGA** TGTTATTTCC CCACCAGGTC CGGGCTGTCT TGTGCGCTTC CCAACCAGAT CCCAATGAGA GACTGACCTC CGACCGTGGC CGAGCCCTCA **TGTTCATGCA** GTGGGGCCAG TTCATTGACC **ATGACCTGGA** CTTCTCCCCG **GAGTCCCCGG** CCAGAGTGGC CTTCACTGCA GGCGTTGACT **GTGAGAGGAC** CTGCGCCCAG CTGCCCCCT GCTTTCCCAT CAAGGTACCT ACCCTCAGCC AATCTCCCAT GCCCTTGTGT GGCCTCCCCC AAAGGCAAGG TGCTGGGGGT **GGGGATCTGG AAGACTGGAG** AAGGAGCTGC CTGTGGAGCT AGGGTATGAG ACAGAGACAC AAG CACCATCCTT CACTGTCTCC TCTTCCATCT CAGATCCCAC CCAATGACCC CCGCATCAAG AACCAGCGTG ACTGCATCCC TTTCTTCCGC TCGGCACCCT CATGCCCCCA AAACAAGAAC AGAGTCCGCA ACCAGATCAA CGCGCTCACC TCCTTTGTGG ACGCCAGCAT GGTGTATGGC AGTGAGGTCT CCCTCTCGCT GCGGCTCCGC **AACCGGACCA** ACTACCTGGG GCTGCTGGCC ATCAACCAGC GCTTTCAAGA CAACGGCCGG GCCCTGCTGC **CCTTCGACAA** CCTGCACGAT GACCCCTGTC TCCTCACCAA CCGCTCGGCG CGCATCCCCT GCTTCCTGGC **AGGTCAGACA** GGGAGGAAGG TGGTGTCTTC CCAGGAAACA GCCATCCCTG GGGTCCCAAC TGGGAAGCAA TGGTGGGATG TGGTGAAGGT ACATGGTTTG GGACCTCAGT ATTAGGCACA CCATAAGCAT GGATCTGTGC AC TGAAGAGATG GAGGTCCAGT GAGGGCCAGG AGTTTGGCCC ACCCCGTCTC TCCCATCCCC AGCCCTGGGT CTACCCTGGT AGAAAGACAT AAGGCTGCAG TTCTCTGGGA TAAATCTGAG CTTGGGGTTT TCAAGGTGAC ACCCGATCAA CGGAAACCCC CAAACTGGCA GCCATGCACA CCCTCTTTAT GCGAGAGCAC CCACCGAGCT **AACCGGCTGG** GAGACGCCTG AATCCCCGGT **GGAATGGAGA** CAAACTGTAC AATGAGGCTC **GGAAGATCAT** GGGGGCCATG GTCCAGGTAA GGAGCTCTGC CTTTGTATCT CCACCCACCA ATAGTAAATT AATGTTGTCA ATCCCAGCAT CCCCC CATTTGACGT GATGACAATA AAGAATATGT CTGAGCCACC CTTTGAAAAG GCAAGGGTAT GGGTGAGTAG CCTCTGGGGA ATGTTCCTCC TGTCTTCCCT TCCAGATCAT CACCTACCGA GACTTTCTGC CCCTGGTTCT GGGCAAGGCC CGGGCCAGGA GAACCCTGGG GCACTACAGG GGGTACTGCT CCAATGTGGA CCCACGGGTG GCCAATGTCT TCACCCTGGC CTTCCGCTTT **GGCCACACAA** TGCTCCAGCC CTTCATGTTC **CGCTTGGACA GTCAGTACCG GGCCTCCGCA** CCCAACTCGC ATGTCCCACT TAGCTCTGCC TTCTTTGCCA GCTGGCGGAT CGTGTATGAA **GGTGACCAGG** TTTTCCAGGG GGCAAATGGG GGTGAGGGTG GGGAGCATGC CCTCCCCTAG GTGG TCCAGCTGCT TCATGTCTCT GTTTCCTGAC CCAGAACTCT **AAACGTTACT AACATACCCG** ACTGGCTTGT **CCAGCTCTGG** GCTAGCTTGG CATCATGTGA TAACCCAAGT **AGCTTCCCAG** AGGCTGGTCC AATCTGTGCT GCTCACATTC CCTGCCACCA **GGGGGCATCG** ACCCCATCCT CCGGGGCCTC ATGGCCACCC CTGCCAAGCT GAACCGTCAG GATGCCATGT TAGTGGATGA GCTCCGGGAC CGGCTGTTTC GGCAAGTGAG GAGGATTGGG CTGGACCTGG CAGCTCTCAA CATGCAACGA AGCCGGGACC ACGGCCTTCC AGGTGAGGGG GCTGTCCACC TCTTCTCCCA **GCTTTGCTCG** GGCCAGGCTG CTCAAGGGGT CCCTGGTACC TCTGGGAAGA CGACTGCCTG GTAGGTTCTG **GTGGCAGAAA** TCACCAAAAG CGAGGTGTTT ACAGCGCAAG **GCCCTGAGCA** GAATTTCCTT GTCTCGAATT ATATGTGACA **ATACCGGTAT** CACCACGGTT TCAAGGGACA **TCTTCAGAGC** CAACATCTAC CCTCGGGGCT TTGTGAACTG CAGCCGTATC CCCAGGTTGA ACCTATCAGC CTGGCGAGGG ACATGAGGCT TCTGCAGGTA AGGGGAGGCC ACCTCCAGCA CCCTGGGCTG GTTAAGCCTC ACATCCTTCC CTGGATGGAT **GGCTGAGTCC**

TCTTAGGTCT	CTAAGCAGAG	AAAACAGAAC	TTGTCACTAG	GTACTCTTTC	CAAGTGGCTT	CCCAATGTGC
TAGTTTCTGG	GCTGACAGTC AZ	ATTCCAGGC CCT	AGGACTT TGGGG	GGAAA TTAGGAG	CAT CCAACTA	GAATTCCGTG
GCCAGGACCC	CTGCCAGGGC	ACTGACCCAG	CCTCCCCTGG	GGCAGTGGAG	ACCTCGGTCC	TGCGAGACTG
CATAGCAGAG	GCCAAGTTGC	TGGTGGATGC	TGCCTACAAT	TGGACCCAGA	AGAGCATCAA	GCAGCGGCTT
CGCAGCGGTT	CAGCCAGCCC	CATGGACCTC	CTGTCCTACT	TCAAACAACC	GGTAGCAGCC	ACCAGGACAG
TTGTTCGGGC	CGCAGATTAT	ATGCATGTGG	CTTTGGGGCT	GCTTGAAGAG	AAGTTACAAC	CCCAGCGGTC
CGGACCCTTC	ATTGTCACTG	ATGTGCTAAC	AGAACCACAG	CTGCGGCTGC	TGTCCCAGGC	CAGTGGCTGT
GCTCTCCGGG	ACCAGGCCGA	GCGCTGCAGC	GACAAGTACC	GCACCATCAC	TGGACGGTGC	AACAACAAGA
GGAGACCCTT	GCTAGGGGCC	TCCAACCAGG	CTCTGGCTCG	CTGGCTGCCC	GCCGAGTATG	AGGATGGGCT
GTCGCTCCCC	TTCGGCTGGA	CCCCCAGCAG	GAGGCGCAAT	GGCTTCCTTC	TCCCTCTTGT	CCGGGCTGTC
TCCAACCAGA	TTGTGCGCTT	CCCCAATGAG	AGACTGACCT	CCGACCGTGG	CCGAGCCCTC	ATGTTCATGC
AGTGGGGCCA	GTTCATTGAC	CATGACCTGG	ACTTCTCCCC	GGAGTCCCCG	GCCAGAGTGG	CCTTCACTGC
AGGCGTTGAC	TGTGAGAGGA	CCTGCGCCCA	GCTGCCCCCC	TGCTTTCCCA	TCAAGATCCC	ACCCAATGAC
CCCCGCATCA	AGAACCAGCG	TGACTGCATC	CCTTTCTTCC	GCTCGGCACC	CTCATGCCCC	CAAAACAAGA
ACAGAGTCCG	CAACCAGATC	AACGCGCTCA	CCTCCTTTGT	GGACGCCAGC	ATGGTGTATG	GCAGTGAGGT
CTCCCTCTCG	CTGCGGCTCC	GCAACCGGAC	CAACTACCTG	GGGCTGCTGG	CCATCAACCA	GCGCTTTCAA
GACAACGGCC	GGGCCCTGCT	GCCCTTCGAC	AACCTGCACG	ATGACCCCTG	TCTCCTCACC	AACCGCTCGG
CGCGCATCCC	CTGCTTCCTG	GCAGGTGACA	CCCGATCAAC	GGAAACCCCC	AAACTGGCAG	CCATGCACAC
CCTCTTTATG	CGAGAGCACA	ACCGGCTGGC	CACCGAGCTG	AGACGCCTGA	ATCCCCGGTG	GAATGGAGAC
AAACTGTACA	ATGAGGCTCG	GAAGATCATG	GGGGCCATGG	TCCAGATCAT	CACCTACCGA	GACTTTCTGC
CCCTGGTTCT	GGGCAAGGCC	CGGGCCAGGA	GAACCCTGGG	GCACTACAGG	GGGTACTGCT	CCAATGTGGA
CCCACGGGTG	GCCAATGTCT	TCACCCTGGC	CTTCCGCTTT	GGCCACACAA	TGCTCCAGCC	CTTCATGTTC
CGCTTGGACA	GTCAGTACCG	GGCCTCCGCA	CCCAACTCGC	ATGTCCCACT	TAGCTCTGCC	TTCTTTGCCA
GCTGGCGGAT	CGTGTATGAA	GGGGGCATCG	ACCCCATCCT	CCGGGGCCTC	ATGGCCACCC	CTGCCAAGCT
GAACCGTCAG	GATGCCATGT	TAGTGGATGA	GCTCCGGGAC	CGGCTGTTTC	GGCAAGTGAG	GAGGATTGGG
CTGGACCTGG	CAGCTCTCAA	CATGCAACGA	AGCCGGGACC	ACGGCCTTCC	AGGGTACAAT	GCTTGGAGGC
GCTTCTGTGG	GCTCTCCCAG	CCCCGGAATT	TGGCACAGCT	TAGCCGGGTG	CTGAAAAACC	AGGACTTGGC
AAGGAAGTTC	CTGAATTTGT	ATGGAACACC	TGACAACATT	GACATCTGGA	TTGGGGCCAT	CGCTGAGCCT
CTTTTGCCGG	GGGCTCGAGT	GGGGCCTCTT	CTGGCTTGTC	TGTTCGAGAA	CCAGTTCAGA	AGAGCCGAGA
CGGAGACAGG	TTCTGGTGGC	AGAACGAGGT	GTTTTCACCA	AAGACAGCGC	AAGGCCCTGA	GCAGAATTTC
CTTGTCTCGA	ATTATATGTG	ACAATACCGG	TATCACCACG	GTTTCAAGGG	ACATCTTCAG	AGCCAACATC
TACCCTCGGG	GCTTTGTGAA	CTGCAGCCGT	ATCCCCAGGT	TGAACCTATC	AGCCTGGCGA	GGGACATGAG
GCTTCTGCAG	GAGTCTATCC	CAAGTCTCCA	ACTTTTGGAG	ACAAGGGGAA	GGGGAGGACC	ATGAGGCTGC
CTTGTCTCCC	TGGAGCAAGT	GCAGGCTCGT	GACGCTTCTG	CTGGCTACAG	CTCAGAGCTG	GGTTCCCCAG
CCAGGAGTGA	AGGCTGGGGG	CTCCTATCAG	CAATGGACCT	TCCGCCTTGG	GAGCCTCTTA	GGTATTAGGC
TATGAATCAG	CGCCACGTGC	AAAGGCTTGG	GAGCCAAGCC	ATGTGGTCTT	GCACCCCAGG	CAAGAAAAGT
CAGCTGGAGG	GTTTACAGCA	CTTTCTACTG	TTTCCCAGCC	CTCCCTCCCC	TCCCTCACCA	TGACTAAGAG
ACCACTCGGT	CCTAGCCTCC	AGACACCCCA	CAATACTCCT	CTGAGCCTGA	GGCCAGGCAG	CATGCTCTGC
TTCTACCAAT	AAAGCACTGC CG	GAATTC				

(2) INFORMATION FOR SEQ ID NO:3009:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 146987 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3009:

BBG TGB GBG CTG BGB GBB BCT GTG BBG CBB TCB TGB CTT CBB GBG TTC TTT TCB CCC GTT CTT GGC TTC TTC TGT C CGT TGG CTT CTC GTT GTC CC TGT GGG CTT CTC GTT GTC CC CCC TTC GGG TGG CTT CTC GTT TGAGAGATCC CCTGAGACAG AGGCAGCAGT GATACCCACC TGTGTTTGAA CAACTGCTTC **CCAAAACGGA** AAGTATTTCA AGCCTAAACC TTTGGGTGAA AAGAACTCTT GAAGTCATGA TTGCTTCACA **GTTTCTCTCA**

GCTCTCACTT	TGGTGCTTCT	CATTAAAGAG	AGTGGAGCCT	GGTCTTACAA	CACCTCCACG	GAAGCTATGA
CTTATGATGA	GGCCAGTGCT	TATTGTCAGC	AAAGGTACAC	ACACCTGGTT	GCAATTCAAA	ACAAAGAAGA
GATTGAGTAC	CTAAACTCCA	TATTGAGCTA	TTCACCAAGT	TATTACTGGA	TTGGAATCAG	AAAAGTCAAC
AATGTGTGGG	TCTGGGTAGG	AACCCAGAAA	CCTCTGACAG	AAGAAGCCAA	GAACTGGGCT	CCAGGTGAAC
CCAACAATAG	GCAAAAAGAT	GAGGACTGCG	TGGAGATCTA	CATCAAGAGA	GAAAAAGATG	TGGGCATGTG
GAATGATGAG	AGGTGCAGCA	AGAAGAAGCT	TGCCCTATGC	TACACAGCTG	CCTGTACCAA	TACATCCTGC
AGTGGCCACG	GTGAATGTGT	AGAGACCATC	AATAATTACA	CTTGCAAGTG	TGACCCTGGC	TTCAGTGGAC
TCAAGTGTGA	GCAAATTGTG	AACTGTACAG	CCCTGGAATC	CCCTGAGCAT	GGAAGCCTGG	TTTGCAGTCA
CCCACTGGGA	AACTTCAGCT	ACAATTCTTC	CTGCTCTATC	AGCTGTGATA	GGGGTTACCT	GCCAAGCAGC
ATGGAGACCA	TGCAGTGTAT	GTCCTCTGGA	GAATGGAGTG	CTCCTATTCC	AGCCTGCAAT	GTGGTTGAGT
GTGATGCTGT	GACAAATCCA	GCCAATGGGT	TCGTGGAATG	TTTCCAAAAC	CCTGGAAGCT	TCCCATGGAA
CACAACCTGT	ACATTTGACT	GTGAAGAAGG	ATTTGAACTA	ATGGGAGCCC	AGAGCCTTCA	GTGTACCTCA
TCTGGGAATT	GGGACAACGA	GAAGCCAACG	TGTAAAGCTG	TGACATGCAG	GGCCGTCCGC	CAGCCTCAGA
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TGAGGAAGGC	TTCATGTTGC	AGGGACCAGC	CCAGGTTGAA	TGCACCACTC	AAGGGCAGTG	GACACAGCAA
ATCCCAGTTT	GTGAAGCTTT	CCAGTGCACA	GCCTTGTCCA	ACCCCGAGCG	AGGCTACATG	AATTGTCTTC
CTAGTGCTTC	TGGCAGTTTC	CGTTATGGGT	CCAGCTGTGA	GTTCTCCTGT	GAGCAGGGTT	TTGTGTTGAA
GGGATCCAAA	AGGCTCCAAT	GTGGCCCCAC	AGGGGAGTGG	GACAACGAGA	AGCCCACATG	TGAAGCTGTG
AGATGCGATG	CTGTCCACCA	GCCCCGAAG	GGTTTGGTGA	GGTGTGCTCA	TTCCCCTATT	GGAGAATTCA
CCTACAAGTC	CTCTTGTGCC	TTCAGCTGTG	AGGAGGGATT	TGAATTATAT	GGATCAACTC	AACTTGAGTG
CACATCTCAG	GGACAATGGA	CAGAAGAGGT	TCCTTCCTGC	CAAGTGGTAA	AATGTTCAAG	CCTGGCAGTT
CCGGGAAAGA	TCAACATGAG	CTGCAGTGGG	GAGCCCGTGT	TTGGCACTGT	GTGCAAGTTC	GCCTGTCCTG
AAGGATGGAC	GCTCAATGGC	TCTGCAGCTC	GGACATGTGG	AGCCACAGGA	CACTGGTCTG	GCCTGCTACC
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CTGACATTAG	CACCATTTCT	CCTCTGGCTT	CGGAAATGCT	TACGGAAAGC	AAAGAAATTT	GTTCCTGCCA
GCAGCTGCCA	AAGCCTTGAA	TCAGACGGAA	GCTACCAAAA	GCCTTCTTAC	ATCCTTTAAG	TTCAAAAGAA
TCAGAAACAG	GTGCATCTGG	GGAACTAGAG	GGATACACTG	AAGTTAACAG	AGACAGATAA	CTCTCCTCGG
GTCTCTGGCC	CTTCTTGCCT	ACTATGCCAG	ATGCCTTTAT	GGCTGAAACC	GCAACACCCA	TCACCACTTC
AATAGATCAA	AGTCCAGCAG	GCAAGGACGG	CCTTCAACTG	AAAAGACTCA	GTGTTCCCTT	TCCTACTCTC
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MG1 G1 GGm1 m						
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						CI CAIA

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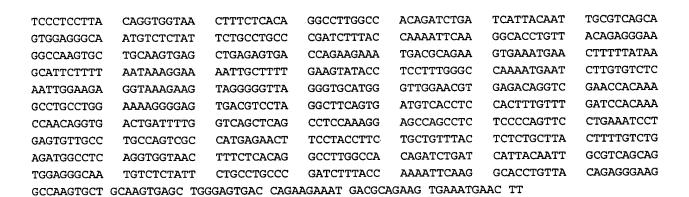
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TAGATTGATA	TCCTTACCCT	AAGAATAAGT	TAGATTAGGT	CTCTCTATTG	TAGCACCTTA	GACTCTGTCA
TTTGACAAAT	CACAGCCCTA	ATTAATTATT	CTTAAAATTA	TTTAACATTC	TCTCTCATGC	TAGACCACAA
GTTTCATGCA	GGTAAGGCGG	AGATTGTGTC	CATTTGTTTG	ACCCCTTTGT	CTCCAGGGCC	TGGTAGAATG
CCTCATACAT	AGTAAGAATT	CAATTAATAT	TTTACACAGA	GAAAAAATTA	GCAACTTATT	TAAACAAATA
TAACTGCTTC	AGAGGTAAAC	TGGGCACATC	TTAGTTATAT	TATGTGATAT	ATGATGCTTT	TTGATTGTTT
TTTTAAATGT	TCTACAAGGT	AGATATTGTT	AGAGGTCCTA	AGTTACTTGA	TGTGTTACTT	GTGGTGATTG
TATTCTTTTC	TTTTTATTCA	TTTAGGCAGA	GCCTTAAGCA	CCAGTCCATA	ATAAAAAGCC	AGTTGAAACA
CAAAGATATA	ATTACTAGCT	TGTGTGAAGA	CATTCTTTTC	TCCTTCCATT	CTTGTTTACA	GTTAGCTGAG
CAGATGACAC	AGTCAGATGC	ACAGGTAAAA	TTTGGGCTAA	TAGCATTTTA	AACAGCAACT	CTTATTTTCT
TTGGCAGTTA	GTAAATCTCA	TTTGAATGTC	TGGGTCAGTC	TATTTAAGAG	GATTTTAATT	TATTTCATTT
GGGTGTTTTT	TTTTGATCTG	TGGGATTATT	TATATCCCAT	AATTACTTTT	CACCCAGAGC	ATTGTATTAG
ATTCCTAACT	GCTGTCATTG	CCTCTGGGGT	CTGCCTGGCT	CCCTCTTTGC	TTGGTAACTG	GTTGGTCACA
GCATTCTTCT	CAGAATCCTT	TCATTCTTTT	CTGCATGAGA	ACAAAAATTC	TTTTGTTCAT	ATTTGTATAA
GATCTGATAT	AGCTGCAATC	AATCTTGCAT	TTTTTCTTCA	CCAACGCATT	GCGACCTTTA	GGGATACAAG
TATGTTTGTG	CATGTATATG	TATGTATCAG	TCTTTTAAAT	TTGATATAGT	CATACATTTG	TTTTTATTTT
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AGGCGCCTGC	CACCACGCCT	GGCTAATTTT	TTTAGTAGAG	ACGGGGTTTC	GCCATGTTGG	CCAGGCTGGT
CTCGAACTCC	TGACCTCAGG	TGGTCCACCC	GCCTTGGCCT	CCCAAAGTGC	TGGGATTACA	GGTGTGAGCC
ACCGCGCCCA	GCCTATATGT	AATAATTTTA	ATGGGACCAT	GAATTGAATA	TTTCTTCCTT	GAATAGCAAT
GACATAGCCC	CTTCTATTGT	ACATCTGCAA	GCTGATACAG	GGAATTCCTT	TGTACCTGCG	CTCTTCCCTG
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CCTCCCCTTG	TATCCCTTCT	TCCTTTTTCC	CTTTCCTTTT	TTGTCCTCAC	TTCATTCGTG	CATCCTTTCT
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CTTCTTTACC	TTTATCCTAT	AGATTCATAT	TCTCAACACC	AACCTCCTCC	TTTTTCAGTT	TCCTTCTTGC
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	TGAGGGATC GC			GGCA TCCTTTT	GC TGGCACTGG	TGGATGTGTA
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- (2) INFORMATION FOR SEQ ID NO:3010:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2936 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3010:

GCCTGCBGGG CCBCCBGGBG TCBGCTCTTG CCTGGBGTGG **CTCBGCCTGG** CCGGGGCTGC **BGCBBCCTCB** BBTGGCBGCB BGGBTGGCGB GGGTCCTCBT GGCTGGGGTC BCBGBTCCTC TBGCTBGGCB GGGTGBCCBG BGBGGGC GGG TCC TCB TGG CTG GGG GCC TGG GCC TGC BGG GCC GCT CTT GCC TGG BGT GGC TC GCC CBG BGT CAAAGGAGCC CAGTTCCTGA **AATCCTGAGT** GTTGCCTGCC CCC TGG T GCTCAGCCTC AGCCTCTCCC GGCCTCAGGT GTTTACTCTC TGCTTACTTT TGTCTGAGAT AGTCGCCATG AGAACTTCCT ACCTTCTGCT **GGGCAATGTC** CAGCAGTGGA ACAATTGCGT TCACAGGCCT TGGCCACAGA TCTGATCATT **GGTAACTTTC GGGAAGGCCA AGTGCTGCAA** TCTATTCTGC CTGCCCGATC TTTACCAAAA TTCAAGGCAC CTGTTACAGA CAGAAGTGAA ATGAACTTTT TATAAGCATT CTTTTAATAA AGTGACCAGA **AGAAATGACG GTGAGCTGGG** TGCAGCACCC TATATCTGCT **GTTTGATGAA** CTGCAGTGGT AAAAAGATTC AGGAAAATTG CTTTTGAAGT AΤ AATGCGGCTA **GGGTGATTTC** AATTAACCTA AAAGAGAACA ACTAGCCACA TAGTGCTCGT GAGCACTTGC AATGAAGCCT **TTTGAGAACA** AAATGAGAGA GCATGTGGCT **GCCATATTGG ATGGTGCTGC GCCACAGGGA** AGGCTTCAAA **CTTTGGGAAG TATTGATACC** CTATTTACCT TGGTTGGCGG **AACACATTGA AGGGACTCTG** GGTTTGGGAA **GGGACCAGAA** ACCAGGCATT AGAATGAAGA CATCCACAGG TGTACTGGCC **AACTTAAACA** AAAAAGTGGA AAAATAGCCT TTGGATGGAA AGAAGAGTTT TTCAAAAGTG GAATTACTGC GAGGACAATG ATGAGAATGT GATCTGCAAC GTTACTGATG **AGACAATTTC** CATCGGTGTG AAAGCCATCT **TTCCAACAGA** CAGATTTATC GTTTAAACTG CTCAGGCTAC **AGGGTAGCGA** TGGCCTCTTG TATTAGTCCG ACTGTCTCCT TTCCTCGCAG TCCTGGAGGC AGGAAGTCTG CCCATAAACA GACCAGGCAG TTTAAACAAC AGAAATTTAT TTGGCTTCTT CTCAGGTGTC TGTCCTTGGC TGGTAGATGA CCGCCGCCTC **GGAAGCAGGG** CGATCAAGGT TTCCTCTGTG **CTTATAAGGA** TGCAAGTCTT TGTGTCTGTC CCAATCTCTT CACATGGTCT CCTGGGTCCT AAAGTTTCTC TCTCCAAATA ATGGATCAGA **GCACACCCCA** ATGACCGTGT TTAACTTGAA TCACCTCTTT TAGGGGATTC AGTTCAGTCC GTTAGGGCTT CGACACAGGA ATTCTTTTCC CAATCACCTC CTGAGGCACT CACAGGCGAC **CCAGGAATAT** TGGTCCCTCG **AAAACGCCTA** CCAGTGGAGA CTTGCAACAT GGCGGCCTGC TGTCTCTATT TCCAGAGTAC TATCAGATCT **GGGATACTGG** TGTTCCCTGT TGCATGGAAT AGAAGGCTAT GAGAGTAACC GAAAGTTTTA **ATAATTTCAG** AAAAAACTAT **AAATAAAGTC** CAAGTAGAAA GAGAAGGGCA AACGATCCTA TGTGGGAAGT GAGGGGGCCG **GGATTCAAGG** CCCGATGTGA GATTTCAGCT GAAATAGTGA **GTTTGAAGAG** TGGCAGCTGC TGTAGGCTGT AGCGTAACTG AAGGCATGGA AGGAGGGAAG CAGAGGGAAC TGTTTGGAAA GGATGTGATT TTGGGGTGTG TTGAGACAAG **GCAGAAAACT** TTCCACATTT CTAAAACACA CACTCAGAAC CCCACTGTTC AAGAAAACCC ATTCCCTGCA CATTTAAAAT CTCTCAGCAG **AATAACTTGA** CACCTCATTT GCTCTTCAGA GACTGAGTAA **SCACAGCTGG** CATAGCCCCA **ATTCCTTGGC** TTGTATTTGG CTCTCCGGTG TTTTGCAGTT CATGAGTAGC CCCAAAGATC **AATCATGGGC** CAATTTCTTG GAAGAGAAGA GTGTTTGTGT **CTACAAGCCA** TGAGTCTGAA **CTTTCGCGAG ATGTTCTCAA ATCGTTGCAG** ATTTGTTCTG



- (2) INFORMATION FOR SEQ ID NO:3011:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9454 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3011:

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CATCAGAACC	TTCTTTTTTT	TTTTTTTCTT	TGAGACTGAG	TCTTGCTCTG	TCGGAAGCGA	CTCCTGTGCC
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TATTCTTTGG	ATTCCTTGAC	CTTCCCCATT	TATTCCCGGC	ATTTTCCTAA	AACGTGTGCT	TTGCTCCTCC
TGCATCCTCC	CCTTGCATGC	CCTCACCTAC	CCCACATCTT	CCCTAAAAAA	AGCAAGCCCA	ACTCAAAGAC
CAGTTCCCTC	ATGGAATCAT	AGTGGATCTG	CCAAGGGAGG	GGATGCCCAG	TCCTCTGTTC	TTCACAAGAC
TCCCTTCTTC	TGGCTAAGGT T	TCTTATGCA AT	TAT GAATTCAC	AT TTCTCACCT	TTGATGTATT	AAGAAAGTAT
GGAGAAATAT	ATCCTCTATC	AAATTTTCAT	GCCTTCAATA	ATTTCTAATT	CATCAGTCAG	TGTTTTTCCA
TCCTTTACTG	TGATGATGCC	CTTTCTTCCA	AACTTTTTCA	TTGCATCAGA	GATGATGTTA	CCAATTTCTT
TGTCTCCATT	TGCAGAAATT	GTAGCAACCT	GTGCAATTTC	TTCAGGTTTG	GTCACAGGTT	TAGACTGCTT
TTTAAGTTCA	GCAATTACAG	CATCAACAGC	TAACATCACA	CCTCTCTTGA	TTTCCACTGG	ATTAGCACCT
TTGCTAACCT	TCTGGAAGGC	TTATTTGGAA	ATAGAGCATA	CCAGTACAGC	AGCAGTGATA	GTGCCATCCC
CCAGTCTCTC	CATTTGTGTT	ATTGGCAACA	TCTTGGACAA	GTTTAGCTCC	AATGCTTTTA	TATTTATCCT
TTAAGTCAAT	TGACTTTGCA	TCAGTCACAC	CATCTTTTGT	TACTTTGGGA	CTTCCCCAGC	TATGTTCAAT
AATTACTGTT	CTTCCCTTTG	GCCCCATTGT	AATGGCTACA	GCATCGACAA	AAAGTCTACA	CTTTGAAGCA
TTAAGGCTCA	GACATCAGCA	CCAAATTTTA	CATCTTTACC	ATCACTTCAA	GTGAGGTGAG	GAGCCAGTAG
CCTGGACACT	GGTCTCATCT	GGTGAAAGAC	TGTGGGTAAT	GGAAGCATTT	CTGTGGGGTG	GTGGCAGGAC
ATGTGCATGG	TGAGGCAGGT	CATCAGCAGC	AAGTGAGAGC	TGCCTCTTAC	TTTCTAAAGG	TGACATAGCA
AGTATACAAA	AAAAAATAAA	ATATTAATTT	AGGCAGAGCA	CATAAAGGCT	TTATTTCATA	TTCCATTTCT
CTGTATGCTT	TCTTCACCAG	GAAGAAATAG	TTTTAGTGTC	AGGAATGAAT	GAGTCTGCCC	CTCAATTCCA
		AACAAAGCCC	TGACAATCAG	AGTGACTCCC	TGGTGACTAA	GCTCCAGTCC
GCCTGCTCAG	CACACAAGGA	AGTTCTGACA	GCATCTGACC	CAGCCCTCTC	TTTGCATACC	CCACCAGAAC
TGGATGCATA	TTTGTTTAGC		AGTCTTGCTC	TGTCGGAAGC	GATTCCCGTG	CCTCAGCCTC
CTTCTTTTTT	TTTTTTTTC	TTTGAGACTG		CTAATTTTTG	TATTTTTCAT	GGAGATGGGG
CCAAATACCT	GGAATTATAG	GCGTAAGCCA	TCATGCCTGG		ACCTGCCTCA	GCCTCCCAAA
TTTTGCCATG	TTGGTCAAAT	TGGTCTCACA	CTCCTGACCT	CATGTGATCC		GTCATTAAGG
GTGCTGGGAT	GACAGGTGTA	AGCCACCATG	CTAGGCTCAG	AAATTTCCTT	TTATAAAAAT	GICHIIAAGG

ATCTTGGCTG	CACAATATCG	TTACCAGCTT	CCTTTAAATC	CACCTCTGGC	CTGCCAGGAA	TCAGGGTTCT
TCAGAACCTG	ACATTTTAAA	TGAAGAGGTC	AGGCAGGTCA	TGAGGAAAGC	CTCATTGTCC	CCATGTCTCT
GTCACTGCTG	CACCCCTGAG	ACATCACAGA	CATGGACACT	GGGGCCTGCT	TGTTTCTCAA	ACTGCCCTTA
GATCGAAAGA	GGGAGGAACC	AGGATGAATG	CCACTCATTT	TCCCAAGAAA	GGCCCTCTCC	TGAGTGCCCG
GGATGGGGCT	CTGTCCATTG	CCTGGGGCCG	CCAATTGCTA	CTCTGGGTTA	CGGAAGAAGG	ACAGGGTCCT
GAGAGACACC	AGAGACCTCA	CACAGCCCTG	AAAACATGGG	GCTCCTTCAT	AAGTGTTTCC	CATCACCAAC
AGGGAGACCA	CGTGGAGGCC	TTGCAGCCCT	ACTCGGTGCT	TCTCCACCAA	ATCCCAAGGG	CAGTGACGCT
GACGTCTGTG	GAAAGCAGAG	AAAGCCCTGG	CTCCCAAAGC	CCTGAAGTCC	TGTGGAGCTG	ACATTCCCTG
AGTGACGGTG	TGAATGGAAG	GAACTCAAGT	GCGGGTGGTA	GGCCACCTCC	TGGCCCAGGC	CTGGGTGAAC
TCTGAGGGGA	CACATGTAGT	CACAATCCCA	TCCTCCCATT	CTCCTTCTCA	GAGGAAGGAA	GTGGGCATCC
ATCTGCCTCA	TCTCTCTCCC	GTGGGGAAGA	TGGGGAGTTT	CAGGGGAACT	TTCACATAAA	TTTCACCAGC
TCAGATCTCC	TGTGAGGATG	GGGCCCACCA	TGCTCCCGGT	GCTGCCAGAG	GCCCTGAGCC	CCTCCAGGGT
CCCTGGGTTT	GAGCCAGCCC	TGTATCATCC	CCAGGAGCTG	AATGTCCGAA	CAATGGATAG	AATTAGATGG
AAAGAGCTCT	CAATTTGGCC	TGAGACTGTC	CCCAGATACT	CAGGAAAAAC	AGGACGTCGC	ACAGAGTGGG
CAGCAGGTGA	GTGGCAGGTT	ATAGGTCCTG	AGTTTGAGTT	TGTTCTCACG	TGAGACAGAC	CCAGCCCCTC
ACTCCATTCA	CACACTGGGT	TTTAAATGGT	GCAAGATAGG	AGGAATTTTC	TGGTCCCAAG	AGCAGGAGGA
AGGGATTTTC	TGGGGTTTCC	TGAGTCCAGA	TTTGCATAAG	ATCTCCTGAG	TGTGCATTGT	TCTTTGAGGA
CCATTCTCTG	ACTCACCAGG	TAAGTGGCTG	AATTCTAACC	TCTGTAATGA	GCATTGCACC	CAATACCAGT
TCTGAACTCT	ACCTGGTGAC	CAGGGACCAG	GACCTTTATA	AGGTGGAAGG	CTTGATGTCC	TCCCCAGACT
CAGCTCCTGG	TGAAGCTCCC	AGCCATCAGC	CATGAGGGTC	TTGTATCTCC	TCTTCTCGTT	CCTCTTCATA
TTCCTGATGC	CTCTTCCAGG	TGAGATGGGC	CAGGGAAATA	GGAGGGTTGG	CCAAATGGAA	GAATGGCGTA
GAAGTTCTCT	GTCTCCTCTC	ATTCCCCTCC	ACCTATCTCT	CCCTCATCCC	TCTCTCTCCT	TCCTCTCTCT
GTGTGTCCCC	TCCATCCTTT	TCTCCTGCTT	CTCTCTCTTC	TTCCCTCTCT	CTCTTTTTTT	CTGTCTTTCT
TTTTCCTCTC	TCCCTAGAGC	ATGTCTTTCT	TTCTTTCTCT	TTCCTTTCTT	CTACCCACAC	TTTTAGACTG
AGTAGACTGA	ATGCCCTATT	TAATTGAACC	AAGCATTGCT	TCCTTCAATA	GAAAAGGAGT	TTGAGAACCC
AATGGACAAC	TCACTCGTTC	TTCTAAGCCA	ATATGAAGGA	GCCCAGTAGT	TTGTAAATAT	CATCTCTTCA
CTGCTTTCCA	TGCTACAACT	GCTGAGACTA	TGGTTGAAAC	CTGTTAGGTG	ACTTTTTAAA	TAAAAGGCAG
AAATTTTGAT	TTTATCTAAA	GAAAGTAGTA	TAGAATGTCA	TTTTCTAAAT	TTTTATATTT	AAAGAGTAGA
TACTGCAACC	TAGAGAATTC	CAGATAATCT	TAAGGCCCAG	CCTATACTGT	GAGAACTACT	GCAGCAGACA
CTCTGCCCCC	AGGACTTTTC	TGATCAGAGG	CCCTGAGAAC	AGTCCCTGCC	ACTAGGCCAC	TGCAGGTTCA
CAGGACAGGG	ACAGCCCATT	GAAACCAACT	TTTAAACCTG	GATGCCTAAC	CTTCATTTTC	TCCTTGATAT
TATGAAAATA	AAATAAAAAC	CATGAAAGGA	TAAAAGAGGG	AGAGTGGAAG	GGAAGGATGG	AGAAAGGGAA
AAAGAAAATT	TGAGAGTAAA	TCCTAAAACA	ATTAATCTAA	TAGATATCAT	CTTGTGAAAT	CCTCATTTTA
CCAATCTTAT	TTATGAGTCC	TGGGTTTTGT	GAGAACAATG	GGGTTCTGAG	AGGCACCAGA	GACCTCATAT
TTTCCAAAAC	CTAGAACAGT	ATAATGAAGG	AAGGAGGGAA	GGAGGGAGGG	AGGGAGGGAA	GGAGGGAAGG
AGGGAGGGAG	GGAGGGAAAC	AAAAAGAAGA	ATGAGGTTGA	AACCAGGACT	TAGATATTAG	AAACAAGCCA
TTACAAAATT	TATTTCTATG	GTTAATTGTG	GTTTTCAACT	GTAAGTTACT	TGGTGTTAAT	TTCCTATTAA
ACAATTTCAG	TAAGTTGCAT	CTTTTTTATC	CCATCTCAGA	TCAAATACTT	AACAGACTAA	ATGATTTGAA
AAAGCAAAAG	TTTACTGGCT	TGTGTGTGTT	AAAATGGAGG	TATGGTGGCT	TTGATATTAT	CTTCTTGTGG
TGGAGCTGAA	TTCACAAGAG	ATCGTTGCTG	AGCTCCTGCC	AGACCCCACC	TGGAGGCCCC	AGTCACTCAG
GAGAGATCAG	GGTCTTTCAC	AATCAGGTTC	ТАСААААТА	AACATCCCCC	AAACCACAGC	AGTGCCAGTT
TCCATGTCAG	AAACTTAGAT	CCAAATGACT	GACTCGCGTC	TCATTATCAT	GATGGAAAAG	CCCAGGCTTG
AGAAAGAAGC	CCGCTGCGGA	TTTACTCAAG	GCGATACTGA	CACAGGGTTT	GTGTTTTTCC	AACATGAGTT
TTGAGTTCTT	ACACGCTGTT	TGCTCTTTTT	GTGTGTTTTT	TCCCTGTTAG	GTGTTTTTGG	TGGTATAGGC
GATCCTGTTA	CCTGCCTTAA	GAGTGGAGCC	ATATGTCATC	CAGTCTTTTG	CCCTAGAAGG	TATAAACAAA
TTGGCACCTG	TGGTCTCCCT	GGAACAAAAT	GCTGCAAAAA	GCCATGAGGA	GGCCAAGAAG	CTGCTGTGGC
TGATGCGGAT	TCAGAAAGGG	CTCCCTCATC	AGAGACGTGC	GACATGTAAA	CCAAATTAAA	CTATGGTGTC
CAAAGATACG	CAATCTTTAT	CCTAGTAATT	GTGGTCATTG	GGTGATGTTG	GTTTGGGCAG	GCCATCTCTA
			AGGGGT CAGGGG			

⁽²⁾ INFORMATION FOR SEQ ID NO:3012:

⁽i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8365 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3012:

(X1)	SEQUENCE DES	SCRIPTION: SE	2 1D NO:3012:			
ATCCTTTAAG	TCAATGGACT	TTGCATCAGT	CACACCATCT	TTTGTTACTT	TGGACTTCCC	CAGCTATGTT
CAATAATTAC	TGTTCTTCCC	TTGGGCCCCA	TTGTAATGGC	TACAGCCTCG	ACAAAAAGTC	TACACTTTGA
AGCATTAAGG	CTCGGACATC	AGCACCAAAT	TTTACATCTT	TACCATCACT	TCAAGTGAGG	TGAGGAGCCA
GTAGCCTGGA	CACTGGTCTC	ATCTGGTGAA	AGACTGTGGG	TAATGGAAGC	ATTTCTGTGG	GGTGCTGGCA
GGACATGTGC	ATGGCGAGGC	AGGTCATCAG	CAGCAAGTGA	GAGCTGCCTC	TTACTTTCTA	AAGGTGACAT
AGCAAATATA	САААААААА	TAAATAAATT	ATTAATTTAG	GTAGAGCACA	TAAAGGCTTT	ATTTCATATT
CCATTTCTCT	GTATGCTTTC	TTCACCAGGA	AGAAATAGTT	TTAGTGTCAG	GAATGAATGA	GTCTGCCCCT
CAATTCCAGC	CTGCTCAACA	CACAAGGAAA	CAAAGCCCTG	ACAATCAGAG	TGACTCCCTG	GTGACTAAGC
TCCCAGTCCT	GGATGCATAT	TTGTTTAGCA	GTTCTGACAG	CATTTGACCC	AGCCCTCTCT	CTGCATATCC
CATCAGAACC	TTCTTTTTT	TTTTTTTCTT	TGAGACTGAG	TCTTGCTCTG	TCGGAAGCGA	CTCCTGTGCC
TCAGCCTCCC	AAATACCTGG	AATTATAGGC	GTAAGCCATC	ATGCCTGGCT	AATTTTTGTA	TTTTTCATGG
AGATGGGGTT	TTGCCATGTT	GGTCAAATTG	GTCTCACACT	CCTGACCTCA	TGTGATCCAC	CTGCCTCAGC
CTCCCAAACT	GCTGGGATGA	CAGGTGTAAG	CCACCATGCT	AGGCTCAGAA	ATTTCCTTTT	ATAAAAATGT
CATTAAGGAT	CTTGGCTGCA	CAATATCGTT	ACCAGCTTCC	TTTAAATCCA	CTTCTGGCCT	GCCAGGAATC
AGGTTCTTCA	GAACCTGACA	TTTTAAATGA	AGAGGTCAGG	CAGTTCATGA	GGAAAGCCTC	ATTGTCCCCA
TGTCTCTGTC	ACTGCTGCAC	CCCTGAGACA	TCACAGACAT	GGACACTGGG	GCCTGCTTGT	TTCTCAAACT
GCCCTTAGAT	CGAAAGAGGG	AGGAACCAGG	ATGAATGCCA	CTCATTTTCC	CAAGAAAGGC	CCTCTCCTGA
GTGCCCGGGA	TGGGGCTCTG	TCCATTGCCT	GGGGCCGCCA	ATTGCTACTC	TGGGTTACGG	AGGAAGGACA
GGGTCCTGAG	AGACACCAGA	GACCTCACAC	AGCCCTGAAA	ACATGGGGCT	CCTTCATAAG	TGTTTCCCAT
CACCAACAGG	GAGACCACGT	GGAGGCCTTG	CAGCCCCACT	CGGTGCTTCT	CCACCAAATC	CCAAGGGCAG
TGACGCTGAC	GTCTGTGGAA	AGCAGAGAAA	GCCCTGGCTC	CCAAAGCCCT	GAAGTCCCTG	TGGAGCTGAC
ATTCCCTGAG	TGACGGTGTG	AATGGAAGGA	ACTCAAGTGC	GGGTGGTAGG	CCACCTCCTG	GCCCAGGCCT
GGGTGAACTC	TGAGGGGACA	CATGTAGTCA	CAATCCCATC	CTCCCATTCT	CCTTCTCAGA	GGAAGGAAGT
GGGCATCCAT	CTGCCTCATC	TCTCTCCCGT	GGGGAAGATG	GGGAGTTTCA	GGGGAACTTT	CACATAAATT
TCACCAGCTC	AGATCTCCTG	TGAGGATGGG	GCCCACCATG	CTCCCGGTGC	TGCCAGAGGC	CCTGAGCCCC
TCCCAGGGTC	CCTGGGTTTG	AGCCAGCCCT	GTATCATCCC	CAGGAGCTGA	ATGTCAGAGC	AATGGATAGA
ATTAGATGGA	AAGAGCTCTC	AATTTGACCT	GAGACTGTCC	CCAGATACTC	AGGAAAAACA	GGACGTCGCA
CAGAGTGGGC	AGCAGGTGAG	TGGCAGGTTA	TAGGTCCTGA	GTTTGAGTTT	GTTCTCACGT	GAGACAGACC
CAGCCCCTCA	CTCCATTCAC	ACACTGGGTT	TTAAATGGTG	CAAGATAGGA	GCAATTTTCT	GGTCCCAAGA
GCAGGAGGAA	GGGATTTTCT	GGGGTTTCCT	GAGTCCAGAT	TTGCATAAGA	TCTCCTGAGT	GTGCATTGTT
CTTTGAGGAC	CATTCTCTGA	CTCACCAGGT	AAGTGGCTGA	ATTCTAACCT	CTGTAATGAG	CATTGCACCC
AATACCAGTT	CTGAACTCTA	CCTGGTGACC	AGGGACCAGG	ACCTTTATAA	GGTGGAAGGC	TTGATGTCCT
CCCCAGACTC	AGCTCCTGGT	GAAGCTCCCA	GCCATCAGCC	ATGAGGGTCT	TGTATCTCCT	CTTCTCGTTC
CTCTTCATAT	TCCTGATGCC	TCTTCCAGGT	GAGATGGGCC	AGGGAAATAG	GAGGGTTGGC	CAAATGGAAG
AATGGCGTAG	AAGTTCTCTG	TCTCCTCTCA	TTCCCCTCCA	CCTATCTCTC	CCTCATCCCT	CTCTCTCCTT
CCTCTCTCTG	TGTGTCCCCT	CCATCCTTTT	CTCCTGCTTC	TCTCTCTTCT	TCCCTCTCTC	TCTTTTTTCT
GTCTTTCTTT	TTCCTCTCTC	CCTAGAGCAT	GTCTTTCTTT	CTTTCTCTTT	CCTTTCTTCT	ACCCACACTT
TTAGACTGAA	TGCCCTATTT	AATTGAACAA	AGCATTGCTT	CCTTCAATAG	AAAAGGAGTT	TGAGAACCCA
ATGGACACCT	CACTCGTTCT	TCTAAGCCAA	TATGAAGGAG	CCCAGTAGCT	TGTAAATATC	ATCTCTTCAC
TGCTTTCCAT	GCTACAACTG	CTGAGACTAT	GGTTGAAACC	TGTTAGGTGA	CTTTTTAAAT	AAAAGGCAGA
AATTTTGATT	TTATCTAAAG	AAAGTAGTAT	AGAATGTCAT	TTTCTAAATT	TTTATATTTA	AAGGGTAGAT
ACTGCAACCT	AGAGAATTCC	AGATAATCTT	AAGGCCCAGC	CTATACTGTG	AGAACTACTG	CAGCAAGACA
CTCTGCCTCC	AGGACTTTTC	TGATCAGAGG	CCCTGAGAAC	AGTCCCTGCC	ACTAGGCCAC	TGCAGGTTCA
CAGGACAGGG	TACAGCCCAT	TGAAACCTAC	TTTTAAACCT	GGATGCCTAA	CCTTCATTTT	CTCCTTGATA
TTATGAAAAT	AAAATAAAAA	CCATGAAAGG	ATAAAAGAGG	GAGAGTGGAA	GGGAAGGATG	GAGAAAGGGA
AAAAGAAAAT	TTGAGAGTAA	ATCCTAAAAC	AATTAATCTA	ATAGATATCA	TCTTGTGAAA	TCCTCATTTT
ACCAATCTTA	TTTATGAGTC	CTGGGTTTTG	TGAGAACAAT	GGGGTTCTGA	GAGGCACCAG	AGACCTCATG
TTTTCCAAAA	CCTAGAACAG	TATAATGAAG	GAAGGCGGGG	AGGCAGGGAG	GCAGGGAGGC	AGGGAGGCAG

GGAGGCGGGC	AGGTGGGGAG	GGAGGGACGG	AAGGAGGGAG	GGAGGGAGGG	AGGGAGGGAG	GGAGGGATAA
AAAAAGAAGA	ATGAGGTTGA	AACCAGGACT	TAGATATTAG	AAACAAGCCA	TTACAAAATT	TATTTCTATG
GTTAATTGTG	GTTTTCAACT	GTAAGTTACT	TGGTGTTAAT	TTCCTATTAA	ACAATTTCAG	TAAGTTGCAT
CTTTTTATCC	CATCTCAGGT	CAAATACTTA	ACAGACTAAA	TGATTTGAAA	AAGCAAAAGT	TTACTGGCTT
GTGTGTGTTA	AAATGGAGGT	ATGGTGGCTT	TGATATTATC	TTCTTGTGGT	GGAGCTGAAT	TCACAAGAGA
TCGTTGCTGA	GCTCCTACCA	GACCCCACCT	GGAGGCCCCA	GTCACTCAGG	AGAGATCAGG	GTCTTTCACA
ATCAGGTTCT	ACAAAAATAA	ACATCCCCCC	AACCACAGCA	GTGCCAGTTT	CCATGTCAGA	AACTTAGATC
CAAATGACTG	ACTCGCGTCT	CATTATCATG	ATGGAAAAGC	CCAGGCTTGA	GAAAGAAGCC	CGCTGCGGAT
TTACTCAAGG	CGATACTGAC	ACAGGGTTTG	TGTTTTTCCA	ACATGAGTTT	TGAGTTCTTA	CACGCTGTTT
GCTCTTTTTG	TGTGTTTTTT	CCCTGTTAGG	TGTTTTTGGT	GGTATAGGCG	ATCCTGTTAC	CTGCCTTAAG
AGTGGAGCCA	TATGTCATCC	AGTCTTTTGC	CCTAGAAGGT	ATAAACAAAT	TGGCACCTGT	GGTCTCCCTG
GAACAAAATG	CTGCAAAAAG	CCATGAGGAG	GCCAAGAAGC	TGCTGTGGCT	GATGCGGATT	CAGAAAGGGC
TCCCTCATCA	GAGACGTGCG	ACATGTAAAC	CAAATTAAAC	TATGGTGTCC	AAAGATACGC	AATCTTTATC
CTAGTAATTG	TGGTCATTGG	GTGATGTTGG	TTTGGGCAGG	CCATCTCTAA	TATCCTTGAA	ACACCTTTTT
CTGCTCTCCA	GGAAGGGGTC	AGGGCTGCCA	CAGCGGGGCT	TGGAGTGCTT	TCCAGGGTCA	CAGGCATCTG
TATTCTTTGG	ATTCCTTGAC	CTTCCCCATT	TATTCCCGGC	ATTTTCCTAA	AACGTGTGCT	TTGCTCCTCC
TGCATCCTCC	CCTTGCATGC	CCTCACCTAC	CCCACATCTT	CCCTAAAAAA	AGCAAGCCCA	ACTCAAAGAC
CAGTTCCCTC	ATGGAATCAT	AGTGGATCTG	CCAAGGGAGG	GGATGCCCAG	TCCTCTGTTC	TTCACAAGAC
TCCCTTCTTC	TGGCTAAGGT '	TTCTTATGCA A	TAT GAATTCCC	TG TAAGCCCTGT	TACAGGGGCT	GCACCCCAGA
TACAACCTGA	CCTGTGTCCA	AGGCGGGCAA	CTCAACCCTT	AGATATTGAA	TGGGTCCCAT	GGCACCAATG
CTTAAACACC	AGCAGCCCTC	ACAACCACAG	ATCGTGTTTT	AAGGATGAGG	AGGTAGTTCT	CTGGATGCAC
AGGCTTCAAT	CCAAATGGGC	TCATGACGCC	GCAGCACACA	CCCAGTCTGC	AGCCTGAAGA	GTTGGAGCAT
TGCATTCACA	GAAAGCATCC	AGACATGATC	ATGGGCTCAG	GGATACACCT	GTTCTCCGAT	GTGTACCAGT
GAAGGATGGA	AACTCCTATG	CCTCCCAGAA	AGCACCACTC	AAGCTTTTGC	TGAATGCTTC	TCTGAAGGCC
CACAAGGCTG	AGAGGCTGTG	CAACACCAGC	AGTAAAGTGA	ATGCCCAGAC	TCCCACCTCC	TTTCTTGGGT
GGCCATCTGG	AAAGGCCACT	CCCACCCTGA	TGGCTAATGC	CTCAGACCAG	TTCTTGGCCC	AGATGATCCT
AGACAATTGT	TTAAGCTTAA	ACTGTTCATT	GGCCAAGCAA	ACAGGTGATA	GTACCTCTGG	GGAACCACAT
GCCGCGTGTA	CATCCAGATC	TCAGGAGAAC	CCAAAAATGT	CTGTTCCACA	TAGCAACAGA	AGCCCAGGTA
GCACTCAGTC	TCACCTGGGT	GTTCTCCAAC	ATCCCAGCTC	AGCCAAATGG	CTTTCATTAG	TTTTTATGGT
TAGACCCCAG	GTCCTCGGGA	CACTGCTTTA	GAAACACATT	CCAAATCCTC	CTCTGTGTGC	AGGTGGCATT
CCTATCCCAA	TCTCTTTGCA	GGGCGTATAC	TGTGATACGC	AGCCAGGCTG	TCCCAGAGGC	CTTAAATATT
CCCTTGGTGC	AGGTAGTTCA	GCTTAGCCAC	AGCCAATGCA	TCACAGGGTC	AACTGTGTTA	GGAGCCATTG
AGAATCCATA	GTTGGTTGCT	GCCTGGGCCT	GGCCAGGGCT	GACCAAGGTA	GATGAGAGGT	TCCTCTGTGG
AGTTCTACTT	TAACCTCACC	TTCCCACCAA	ATTTCTCAAC	TGTCCTTGCC	ACCACAATTA	TTTAATGGAC
CCAACAGAAA	GTAACCCCGG	AAATTAGGAC	ACCTCATCCC	AAAAGACCTT	TAAATAGGGG	AAGTCCACTT
GTGCACGGCT	GCTCCTTGCT	ATAGAAGACC	TGGGACAGAG	GACTGCTGTC	TGCCCTCTCT	GGTCACCCTG
CCTAGCTAGA	GGATCTGTAA	GTACTACAAA	ACTTAAACTT	TACACTGAGT	TTTCATCATT	GAAGCTATGC
CTCCAATCTG	ACCTCTGACT	GTGGGGCCGC	CCCAGAGGGA	CCCAGCGGGT	GAATCCCTGC	TAGGAACGTC
TGTCCGGACC	TCTGGTGACT	GCTGGGGACG	ATGGCTTCCA	GCTAACTTAA	TAGAGAAACT	CAAGCAGTTT
CCTTCTAAAT	ACACATGTCA	CATGTCCTGG	TTGACATGTC	CAGTAAGAAG	ACTATCACAG	GTCTTTGGAA
CATTCTTTTG	AGAGAAACCT	ATTTAGGTCC	TTGGTCTGTT	TTTCAATCAG	GTTGTTTGAT	TTTTGCTATT
GAGTTGTTGG	AATTCCTTAT	GTATTCAGAT	ATTTGCCCCT	TCTGCCATGT	AGGTTTTGCA	AATATTTTCT
CTCATTTTCT	GGGTTATCTT	TTCACTCGGT	TGATTGTTTC	CTTTGCTGTG	CAGATGCTTT	AGCGTTAAAT
GAAGCCACAC	TTGTCTATTT	TCCCTTTTAT	TGCCTGTGCC	TTTGGTGTCA	TAGCCAAGAA	ATCATTACCT
ACATCAATGT	CAAAAGCTTT	ATCCTTCTAT	ACACTTCTAG	TAGTTTATGG	TTTCAGTTGT	TACATTTAGG
TTTTCAATTC	ATTCTGAGTT	GATGTTCCTA	CATGGTGTGA	GATAAAGATT	TAAATACATA	CATATATAAA
ATCATGAGGT	AGTGTACACT	ATAAATATAC	AATTGTTAAT	TGTTACTCAA	GTCTAAGTAG	AGGTGGAAAT
AATAAACTTT	CTTTTTTTTA	CTTAAACCAC	TCTGTGTCAC	TGAGCTGATT	TCACCTTTAG	CCTGATAAAA
	CTCCACCCTG	ATTCCTACAG	GAGACTACTC	ACCCCATAAC	CTCAAAAACC	TCTTCATGAG
TCATTGTCCT	CACCTGAATC	CTGAAGTGAA	TTACTCGCTA	TTCCATTGGA	ACTCATATAG	GACACCAGAA
GATGGTAAGT		CAGGACCCAT	CTTCAGAAAA	TAAGAAGCAT	TTGTTCCCTG	AGCCTGTTGA
TCTAGACCTC	CAGAGAACAG AATTTCTATT	CTTTTTGGAA	TGTTAAAAAG	TGAATCATAA	TATTTAAGCA	GGTGAACCCA
ATCAAAGTGC	MAILICIAIL	CITITIGGAA	IGIIMMMMG	Totalionital		

CGAGTAACAT	AGCAGGGTCT	TTCTTGTCAT	TATTAGCTCC	AACCTAGCAC	AGACATTAAA	GGTACAGATG
TATACTAGCA	TGAAACTGGG	AGAACAGGAG	CATTCGAGCA	ACCTTGAGAC	CAATGGGCCT	CTCTTATAAA
ATGCACACCT	CCTCTCACTG	AGATTGAGGA	AGGTTTCTTG	TCTCCGAGCC	TTCTCCCAGT	AGAGCTATAA
ATCCAGGCTG	GCTCCTCCCT	CCCCACACAG	CTGCTCCTGC	TCTCCCTCCT	CCAGGTGACC	CCAGCCATGA
GGACCCTCGC	CATCCTTGCT	GCCATTCTCC	TGGTGGCCCT	GCAGGCCCAG	GCTGAGCCAC	TCCAGGCAAG
AGCTGATGAG	GTTGCTGCAG	CCCCGGAGCA	GATTGCAGCG	GACATCCCAG	AAGTGGTTGT	TTCCCTTGCA
TGGGACGAAA	GCTTGGCTCC	AAAGCATCCA	GGTGAGAGAG	GCAGGCATGC	AGAGCTGCTA	AGTCTAGAGG
GAAGGACGGG	AGAGAGGTTC	CAGAGTTGGG	TCTCAGCAGT	CTATGTCACT	GAGGTGGCTT	CACTTAGAAT
CTCTGGGCAT	TGATTTTCTC	ATCTAGAAAT	TGAACAGAGA	GCCAAATAAA	CCTGAGAAAC	TTTATTTCTC
CAAAGACTTG	ATTCCAAGAA	ACATCTGTGA	AATTCACTAA	GTTTAAGATA	TGAAGAGACA	GACTAGTTAT
TTCTGGATCT	AAACAAGTAG	ACTTAGTTGT	AAAGAGAACA	TTTTACTCTA	TCTACAGAAG	AGCTTTTAAA
AACTGCAGCC	AAGCCTGAGG	GTAAGTTCAG	GTGTGTGTGT	GATGGGGCAG	GAATGCAAAA	ATGAGAGCAA
AGGAGAATGA	GTCTCAAATT	CTGTGTGACA	AGCACTGCTC	TGCGTGTTTA	TTCCTATCGA	CTGAGGTTGT
TCGTGCTACC	GGCTGCAATG	CAGCCAGCAT	CACCTGTCAG	CTAGCATGTG	ACTTCCCCGA	GATTCTTTTT
CTTACCCACT	GCTAACTCCA	TACTCAATTT	CTCATGCTCT	CCCTGTCCCA	GGCTCAAGGA	AAAACATGGA
CTGCTATTGC	AGAATACCAG	CGTGCATTGC	AGGAGAACGT	CGCTATGGAA	CCTGCATCTA	CCAGGGAAGA
CTCTGGGCAT	TCTGCTGCTG	AGCTTGCAGA	AAAAGAAAAA	TGAGCTCAAA	ATTTGCTTTG	AGAGCTACAG
GGAATTGCTA	TTACTCCTGT	ACCTTCTGCT	CAATTTCCTT	TCCTCATCTC	AAATAAATGC	CTTGTTACAA
GATTTCTGTG	TTTCCACCTC	TTTAATGTGT	GATATGTGTC	TGTGTCAAGA	CACTTGGGAT	ACACGTACCA
AAACGCAAAA	TCAAATTTTT GA	ACAATATA				

(2) INFORMATION FOR SEQ ID NO:3013:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 644 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3013:

CGCTGCBBTC TGCTCCGGGG CTGCBGCBBC CTCBTCBGCTC TTGCCTGGBGTG GCTCBGCCTGG GCCTGCBGGG CCBCCBGGBGB BTGGCBGCBBG GBTGGCGBGGG TCCTCBTGGC TGGGGTCBCCT GGBGGBGGGB GBGCBGGGG TCCTCBTGGC TGGGGTCCCT CTCTCCCGTC CT CCTACCTTGC TATAGAAGAC CTGGGACAGA GGACTGCTGT CTGCCCTCTC TGGTCACCCT GCCTAGCTAG AGGATCTGTG ACCCCAGCCA TGAGGACCCT CGCCATCCTT GCTGCCATTC TCCTGGTGGC CCTGCAGGCC CAGGCTGAGC CACTCCAGGC AAGAGCTGAT GAGGTTGCTG CAGCCCCGGA GCAGATTGCA GCGGACATCC CAGAAGTGGT TGTTTCCCTT AAAGCTTGGC GCATGGGACG GGACTGCTAT TGCAGAATAC CAGCGTGCAT TGCAGGAGAA TCCAAAGCAT CCAGGCTCAA GGAAAAACAT CTGAGCTTGC AGAAAAAGAA CGTCGCTATG GAACCTGCAT CTACCAGGGA AGACTCTGGG CATTCTGCTG

AAATGAGCTC AAAATTTGCT TTGAGAGCTA CAGGGAATTG CTATTACTCC TGTACCTTCT GCTCAATTTC CTTT

(2) INFORMATION FOR SEQ ID NO:3014:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 5036 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3014:

GCCACCATGG	AAACCCTTTG	CCTCAGGGCA	TCCTTTTGGC	TGGCACTGGT	TGGATGTGTA	ATCAGTGATA
ATCCTGAGAG	ATACAGCACA	AATCTAAGCA	ATCATGTGGA	TGATTTCACC	ACTTTTCGTG	GCACAGAGCT
CAGCTTCCTG	GTTACCACTC	ATCAACCCAC	TAATTTGGTC	CTACCCAGCA	ATGGCTCAAT	GCACAACTAT
TGCCCACAGC	AGACTAAAAT	TACTTCAGCT	TTCAAATACA	TTAACACTGT	GATATCTTGT	ACTATTTTCA
TCGTGGGAAT	GGTGGGGAAT	GCAACTCTGC	TCAGGATCAT	TTACCAGAAC	AAATGTATGA	GGAATGGCCC
CAACGCGCTG	ATAGCCAGTC	TTGCCCTTGG	AGACCTTATC	TATGTGGTCA	TTGATCTCCC	TATCAATGTA
TGGCTGGGCG	CTGGCCTTTT	GATCACAATG	ACTTTGGCGT	ATTTCTTTGC	AAGCTGTTCC	CCTTTTTGCA
GAAGTCCTCG	GTGGGGATCA	CCGTCCTCAA	CCTCTGCGCT	CTTAGTGTTG	ACAGGTACAG	AGCAGTTGCC
TCCTGGAGTC	GTGTTCAGGG	AATTGGGATT	CCTTTGGTAA	CTGCCATTGA	AATTGCCTCC	ATCTGGATCC

TGTCCTTTAT	CCTGGCCATT	CCTGAAGCGA	TTGGCTTCGT	CATGGTACCC	TTTGAATATA	GGGGTGGACA
GCATAAAACC	TGTATGCTCA	ATGCCACATC	AAAATTCATG	GAGTTCTACC	AAGATGTAAA	GGACTGGTGG
CTCTTCGGGT	TCTATTTCTG	TATGCCCTTG	GTGTGCACTG	CGATCTTCTA	CACCCTCATG	ACTGGTGAGA
TGTTGAACAG	AAGGAATGGC	AGCTTGAGAA	TTGCCCTCAG	TGAACATCTT	AAGCAGCGTC	GAGAAGTGGC
AAAAACAGTT	TTCTGCTTGG	TTGTAATTTT	TGCTCTTTGC	TGGTTCCCTC	TTCATTTAAG	CCGTATATTG
AAGAAAACTG	TGTATAACGA	GATGGACAAG	AACCGATGTG	AATTACTTAG	TTTCTTACTG	CTCATGGATT
ACATCGGTAT	TAACTTGGCA	ACCATGAATT	CATGTATAAA	CCCCATAGCT	CTGTATTTTG	TGAGCAAGAA
ATTTAAAAAT	TGTTTCCAGT	CATGCCTCTG	CTGCTGCTGT	TACCAGTCCA	AAAGTCTGAT	GACCTCGGTC
CCCATGAACG	GAACAAGCAT	CCAGTGGAAG	AACCACGATC	AAAACAACCA	CAACACAGAC	CGGAGCAGCC
ATAAGGACAG	CATGAACTGA	CCACCCTTAG	AAGCACTCCT	GAATTCGGGA	AAAAGTGAAG	GTGTAAAAGC
AGCACAAGTG	CAATAAGAGA	TATTTCCTCA	AATTTGCCTC	AAGATGGAAA	CCCTTTGCCT	CAGGGCATCC
TTTTGGCTGG	CACTGGTTGG	ATGTGTAATC	AGTGATAATC	CTGAGAGATA	CAGCACAAAT	CTAAGCAATC
ATGTGGATGA	TTTCACCACT	TTTCGTGGCA	CAGAGCTCAG	CTTCCTGGTT	ACCACTCATC	AACCCACTAA
TTTGGTCCTA	CCCAGCAATG	GCTCAATGCA	CAACTATTGC	CCACAGCAGA	CTAAAATTAC	TTCAGCTTTC
AAATACATTA	ACACTGTGAT	ATCTTGTACT	ATTTTCATCG	TGGGAATGGT	GGGGAATGCA	ACTCTGCTCA
GGATCATTTA	CCAGAACAAA	TGTATGAGGA	ATGGCCCCAA	CGCGCTGATA	GCCAGTCTTG	CCCTTGGAGA
CCTTATCTAT	GTGGTCATTG	ATCTCCCTAT	CAATGTATTT	AAGCTGCTGG	CTGGGCGCTG	GCCTTTTGAT
CACAATGACT	TTGGCGTATT	TCTTTGCAAG	CTGTTCCCCT	TTTTGCAGAA	GTCCTCGGTG	GGGATCACCG
TCCTCAACCT	CTGCGCTCTT	AGTGTTGACA	GGTACAGAGC	AGTTGCCTCC	TGGAGTCGTG	TTCAGGGAAT
TGGGATTCCT	TTGGTAACTG	CCATTGAAAT	TGTCTCCATC	TGGATCCTGT	CCTTTATCCT	GGCCATTCCT
GAAGCGATTG	GCTTCGTCAT	GGTACCCTTT	GAATATAGGG	GTGAACAGCA	TAAAACCTGT	ATGCTCAATG
CCACATCAAA	ATTCATGGAG	TTCTACCAAG	ATGTAAAGGA	CTGGTGGCTC	TTCGGGTTCT	ATTTCTGTAT
GCCCTTGGTG	TGCACTGCGA	TCTTCTACAC	CCTCATGACT	TGTGAGATGT	TGAACAGAAG	GAATGGCAGC
TTGAGAATTG	CCCTCAGTGA	ACATCTTAAG	CAGCGTCGAG	AAGTGGCAAA	AACAGTTTTC	TGCTTGGTTG
TAATTTTTGC	TCTTTGCTGG	TTCCCTCTTC	ATTTAAGCCG	TATATTGAAG	AAAACTGTGT	ATAACGAGAT
GGACAAGAAC	CGATGTGAAT	TACTTAGTTT	CTTACTGCTC	ATGGATTACA	TCGGTATTAA	CTTGGCAACC
ATGAATTCAT	GTATAAACCC	CATAGCTCTG	TATTTTGTGA	GCAAGAAATT	TAAAAATTGT	TTCCAGTCAT
GCCTCTGCTG	CTGCTGTTAC	CAGTCCAAAA	GTCTGATGAC	CTCGGTCCCC	ATGAACGGAA	CAAGCATCCA
GTGGAAGAAC	CACGATCAAA	ACAACCACAA	CACAGACCGG	AGCAGCCATA	AGGACAGCAT	GAACTGACCA
CCCTTAGAAG	CACTCCTCGG	TACTCCCATA	ATCCTCTCGG	AGAAAAAAAT	CACAAGGCAA	CTGTGAGTCC
GGGAATCTCT	TCTCTGATCC	TTCTTCCTTA	ATTCACTCCC	ACACCCAAGA	AGAAATGCTT	TCCAAAACCG
CAAGGGTAGA	CTGGTTTATC	CACCCACAAC	ATCTACGAAT	CGTACTTCTT	TAATTGATCT	AATTTACATA
TTCTGCGTGT	TGTATTCAGC	ACTAAAAAAT	GGTGGGAGCT	GGGGGAGAAT	GAAGACTGTT	AAATGAAACC
AGAAGGATAT	TTACTACTTT	TGCATGAAAA	TAGAGCTTTC	AAGTACATGG	CTAGCTTTTA	TGGCAGTTCT
GGTGAATGTT	CAATGGGAAC	TGGTCACCAT	GAAACTTTAG	AGATTAACGA	CAAGATTTTC	TACTTTTTTT
AAGTGATTTT	TTTGTCCTTC	AGCCAAACAC	AATATGGGCT	CAAGTCACTT	TTATTTGAAA	TGTCATTTGG
TGCCAGTATC (CCGAATTC GAAI	TCGGGA AAAAG	rgaag gtgtaaa	AGC AGCACAAG	rg caataagaga	TATTTCCTCA
AATTTGCCTC	AAGATGGAAA	CCCTTTGCCT	CAGGGCATCC	TTTTGGCTGG	CACTGGTTGG	ATGTGTAATC
AGTGATAATC	CTGAGAGATA	CAGCACAAAT	CTAAGCAATC	ATGTGGATGA	TTTCACCACT	TTTCGTGGCA
CAGAGCTCAG	CTTCCTGGTT	ACCACTCATC	AACCCACTAA	TTTGGTCCTA	CCCAGCAATG	GCTCAATGCA
CAACTATTGC	CCACAGCAGA	CTAAAATTAC	TTCAGCTTTC	AAATACATTA	ACACTGTGAT	ATCTTGTACT
ATTTTCATCG	TGGGAATGGT	GGGGAATGCA	ACTCTGCTCA	GGATCATTTA	CCAGAACAAA	TGTATGAGGA
ATGGCCCCAA	CGCGCTGATA	GCCAGTCTTG	CCCTTGGAGA	CCTTATCTAT	GTGGTCATTG	ATCTCCCTAT
CAATGTATTT	AAGCTGCTGG	CTGGGCGCTG	GCCTTTTGAT	CACAATGACT	TTGGCGTATT	TCTTTGCAAG
CTGTTCCCCT	TTTTGCAGAA	GTCCTCGGTG	GGGATCACCG	TCCTCAACCT	CTGCGCTCTT	AGTGTTGACA
GGTACAGAGC	AGTTGCCTCC	TGGAGTCGTG	TTCAGGGAAT	TGGGATTCCT	TTGGTAACTG	CCATTGAAAT
TGTCTCCATC	TGGATCCTGT	CCTTTATCCT	GGCCATTCCT	GAAGCGATTG	GCTTCGTCAT	GGTACCCTTT
GAATATAGGG	GTGAACAGCA	TAAAACCTGT	ATGCTCAATG	CCACATCAAA	ATTCATGGAG	TTCTACCAAG
ATGTAAAGGA	CTGGTGGCTC	TTCGGGTTCT	ATTTCTGTAT	GCCCTTGGTG	TGCACTGCGA	TCTTCTACAC
CCTCATGACT	TGTGAGATGT	TGAACAGAAG	GAATGGCAGC	TTGAGAATTG	CCCTCAGTGA	ACATCTTAAG
CAGCGTCGAG	AAGTGGCAAA	AACAGTTTTC	TGCTTGGTTG	TAATTTTTGC	TCTTTGCTGG	TTCCCTCTTC
ATTTAAGCCG	TATATTGAAG	AAAACTGTGT	ATAACGAGAT	GGACAAGAAC	CGATGTGAAT	TACTTAGTTT

CTTACTGCTC	ATGGATTACA	TCGGTATTAA	CTTGGCAACC	ATGAATTCAT	GTATAAACCC	CATAGCTCTG
TATTTTGTGA	GCAAGAAATT	TAAAAATTGT	TTCCAGTCAT	GCCTCTGCTG	CTGCTGTTAC	CAGTCCAAAA
GTCTGATGAC	CTCGGTCCCC	ATGAACGGAA	CAAGCATCCA	GTGGAAGAAC	CACGATCAAA	ACAACCACAA
CACAGACCGG	AGCAGCCATA	AGGACAGCAT	GAACTGACCA	CCCTTAGAAG	CACTCCTCGG	TACTCCCATA
ATCCTCTCGG	AGAAAAAAT	CACAAGGCAA	CTGTGAGTCC	GGGAATCTCT	TCTCTGATCC	TTCTTCCTTA
ATTCACTCCC	ACACCCAAGA	AGAAATGCTT	TCCAAAACCG	CAAGGGTAGA	CTGGTTTATC	CACCCACAAC
ATCTACGAAT	CGTACTTCTT	TAATTGATCT	AATTTACATA	TTCTGCGTGT	TGTATTCAGC	ACTAAAAAAT
GGTGGGAGCT	GGGGGAGAAT	GAAGACTGTT	AAATGAAACC	AGAAGGATAT	TTACTACTTT	TGCATGAAAA
TAGAGCTTTC	AAGTACATGG	CTAGCTTTTA	TGGCAGTTCT	GGTGAATGTT	CAATGGGAAC	TGGTCACCAT
GAAACTTTAG	AGATTAACGA	CAAGATTTTC	TACTTTTTT	AAGTGATTTT	TTTGTCCTTC	AGCCAAACAC
AATATGGGCT	CAAGTCACTT TT	ATTTGAAA TGTC	ATTTGG TGCCAG	TATC CCGAATT	2	

- (2) INFORMATION FOR SEQ ID NO:3015:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9372 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3015:

GGBGCTGBTB	CTGCBGATTT	CBGBGGGBBG	BBCCCTGBTB	CTCBCCBGCT	TCBGCTCTGG	BGCBCBBGBG
BBBGBGCBGC	BGGGGGBGBG	GBBGBBGCBG	CBTCTTCCCB	GBGBGGCTGC	CTGBGCBBBT	GCTGGTTTTC
CTTTCCBGTC	TTGGGTTTTB	TBBCTCCCBG	BBGGCBBGBG	BGGGGCBBGG	CGTTTTCTTC	TCTCGCTGGT
TTTCCTTTCC	TGGCAGTGGG	TGGGGGTGGG	GGTGGGGTGG	CTTCCTTGTT	CCTGGGGGTG	TCCTCTTGCT
CTGGGCTTTT	CTCCCCTTTT	CCTTCCTGTC	TGTTTTCCTG	GGGCTCTCCT	CTGTCTCTGT	GTCCTTGCCC
TGGCCCTCTT	CCCTCTCCTG TC	TCCTGTCC CTG	TGTTCCG CCCGT			
CTCTCCTGAC	CTCCTTTTCC	TCCGCTGGGT	GGGGCCCTGC	CTGTTCTCTG	CTCCCTGGCT	TGGGGTTTCT
TCTGTGTGTC	TTCTTCCTCT	GTTGGCTGGC	TTTCTCCTTC	TTTTGTCTTC	CTGGGTGCCC	CTTCTTCCTT
TCTTGGGTCC	TTGGTGCTTG G	GCTGGG TCCCA	GTTAA TACATAA	TCA ATATGCAA		TCTCTCCATG
TCCACTCCCC	CTGTATCTTG	CCATTCTTGA	CCTGCATTTC	CATCCTCCTT	ACCTTCCCTA	GAGGCCAACT
CATTTTCTTT	GAAAAACCTG	GCATTTCCCA	GAAAAAAAAG	TGAAGGGCTG	GGAGCTGTCC	GTTGTCCTGA
TTTGCTCCCT	CTGCCCTTGC	TTCCAAATGT	GGTTGGAAAG	AAGCACTATT	GAAAAATCCC	TAAACGCACC
CCTGCAGGGT	TGGCTCTACC	CTGTAGCCAT	GGACACATGC	TGTTGATACC	ACCTGCCTCA	TGAGTCTCAC
ATAATTTGCC	CTTTCACACT	ATCTACCCCA	TCAGCCTTAC	CAAAACCATA	CCTGCATCCT	GGGCAGCATC
TGCCCTTCAA	GAGACTAAGG	AATCTCCTTG	CAACCAAGAA	TGACTAGACC	AATGAGACAC	CCTTTAAGGC
CCCAGCACAA	TATAGAAATC	CCACAATATG	GTAATCCCAG	TAAGGAGCTA	TCAAGCCATT	GCAGGACCAT
CTAGAATACA	ACTAGAGTAT	AGTTCCTTTC	AATCCAGGAA	CTATACTCTA	ACAGCTTGGC	TCACAGGAAC
CAGAAGTGAA	GATGATGAGG	ATCAGGGCTG	AGCCTGTGAG	CACCAGCTCC	ACCACTGACA	CCAACCACAG
ATTAAACAAG	CATCTTGTGG	ACCCCTGGGA	TGGAAAGAAT	AGTTGTTGCC	TTATCAACCT	CCCCCACAGC
CCACACAGAA	AAGATAAAAT	CATCATGGCT	ACAGTGTTAC	AGAAGATGAT	GACCCAAGGA	GTAGGCCTGC
CTGAGTGAAT	GCTGAGAGTG	ATAATGGGAG	CAGTAGCATC	TCAGAGACTA	CAGCAGAAAC	CATCCACATA
AAGAGCTTTG	CCCAAACTTA	TGATAAAGGG	CACCCTCAGA	GACTCTCCCT	ACTTTAATAT	TAGCCCATTG
CAGAAATGGT	GAGTGGAAAG	AGAAATCTTA	GGAAGAACCC	CTTAAAAAAG	CAAAATGCTT	TTTAGGTTTG
TGCTGAAGAG	CCTGGAAAAG	AAATAAGGAC	ACACACGCTG	AGAAATCTTC	CTCCTGCCCC	AACACTGGGA
TAATCTCCAA	GGATCTCTCC	ATATCTCATT	CTCCTGGATA	CACTGTCCAC	TCAGAAATAT	TGTGCAGAGT
GCAGTAATTC	AAAAGTGAGC	TATTGTGTTA	GGAGTGAAGG	CAAGAGTATC	GTAAAATAAA	TCAAATTTGA
AATGAATTCT	CTTAAATTGC	TTTATAGATG	TTTAATGTAA	GCCAGCAGCT	ATTAAACGAT	AAACCTTAAA
TTCGAGAAAA	ACTTGGTCAT	TCAGAAACTA	TAGAAACAGG	CAGGACTTAT	TGCGAGGGCA	AACACAGAGT
GAGCTCCAGC	CTGCTTCAGG	AAAATCTGCC	AGTGCCATGA	AGGATGTACT	CTGTCTGCTC	CACTGCACTA
CTGCTCAGTA	TGAGCCCATG	CCATCAGCTG	TCCCTGACCC	ACAGGAGTTC	TTTAGAAGAG	ACTGGTCAAC
AAAAGTTTCT	AGGGTGTTTT	ATACCTGCCA	ACTCGAGGGT	TAAAACAAGT	TGCATAGAAA	TGCTCAATCA
AGAAAGACAC	AGTCATTACT	CAGAGAATAA	TAAACAGCCT	GGCAGCACAT	GAATGAATAG	AAAAAAGATG
TTACATGCAA	AGCATGAAAT	AACCAAATTC	CATAACAGAT	GTTAATCTGT	AATGTGTTTA	GGAGAATTTA
GAGGAAGTAT	AAGATTTATT	CTTTCATCAA	AAAAATTATA	GCCAATGAGG	ATATATCTAT	CAATTATCCA

TCAAGTGGTG	ATATGGCAGC	ACAAGGTAAA	ACACAAAGGA	ATAAAACCAA	CGTTTATTAA	GAACCAATCA
TGTGGCATTT	CACATTGAGC	ATCATATTTA	ATTCTGAAAA	AAATCCTTGT	ACTGTATCAT	TCTTCATATT
TTATGGATGC	AGTAACTAAG	GCTGAGAACT	TTAAAATTTT	TCCTAAGTTC	AGACACATAG	CTAAGTGGCA
GAACCAAGAT	TCAAACTCAC	CCCATCTAAC	TGCAGAGCAA	ACTGCATGCC	TTAAATGTCA	AAGTGAATAC
TAGCACAGTT	AATACAATGT	TTGGAAACTC	AGAGAAGGAA	TGATCCCTCT	GCATTATAGT	TACTAAGGAA
TCATTGCCAT	TATTTAAATG	CCAGTGCTTC	TACATCAGGC	CCAAATTTTC	TGTCCTACTA	ACTGTGAATC
AAGACTTGAT	TCAACCTCTA	CTTGAGTATC	TGCCGCAATG	AGAAATCACT	TACCTCCACT	AACCACACAT
TTATTTTATA	ACAACAGATT	GTTAGTAAGT	CCTTTCTTAT	ACATACTCAA	CAGCTGCTTC	CCAAGATGCT
GTAGGATTAT	GTCTAGAGTC	AAACTAGCCA	GAAGCAATGT	CCAAAATACA	CCATAACACT	GTGCAGCAAA
GGTCCTACTA	CCACTTGTTT	GGCCCAAACA	TTCTAGGCAG	CACTGGATAT	CTGAATCATC	AATTATTTCC
ACAAACACTG	ACCCCTCTAC	CAGTCACCCT	CACTAGAAGA	ATTAATTCCA	CATGATAATA	GCTCCCTCAT
GTTACTCCCT	TCTAAGTCAA	ATTGTACACC	CCTTTATCTG	ATTAACAGAG	TCTAAGTCAC	ATGACCTAAA
TGCAAGAGAA	CTGGGAATGG	ACGTTTGTGG	ATTCTACCTT	AGTAAGGCAA	AGTTATCATT	GGGAATTCCT
CTAATACAGG	AAGGGTGTTC	CAGAGACATT	AAGGAGCCAT	ATAAATGGAA	AATGTCCACT	ACAATCCATC
ACTTGGTTGC	CCCACATCAA	CATTCATTCT	TTTGCCACAC	TTAAAGTTTC	CAAGAACAAA	AATTATCCCA
CTGAACATAA	TCTTTACTAT	CTTTTATATA	AAGGAAAATT	AGACTTGACT	CAGCAGAACT	GAAATAACCC
AGCTCTAACA	GTTACTGCTT	TTAACTTCAA	GTACTGTGTC	TCTAGGTGAT	ACCTGCTCCA	ACAATAGTTT
GGTCACATTT	TCAATTTGAT	ATTCTCTAGT	CTCCCAACTT	GATAACTGTA	CCCTAAACCA	TAAAGTTCAC
TACCAACATG	CTATATATAA	AATAACCAAA	GGGGGAAGAA	GAAAGAGAAA	AAGGAAATCT	CTTAAAATAC
ACAGGTATAC	ATATGACAAA	GCAAAGAAGG	AAATGTGAGC	AGATAGTGCA	GTCCTCGTTT	CTGAAATTGG
TCCCCTGACT	GGGGCTATAC	CTATTCCATT	TCCTCACCCT	CAGCCAGGCA	GGTGGAGCAA	AAACTTAAGT
CTTGGTGGAT	CTGAATCTTG	ATGCTGTGGA	GCTGTCTTAC	TAGCCCCAGA	CTACCTGCCT	CTCAATTTCT
AATTATATCA	GTGAAAGCAA	ACAGCTTTGA	TTTGTTTAAG	CCTCTGATTT	TTTGGTCTAA	CTGATGTAAG
ACCACAAGGA	CAAGAGTTCT	CCAGCTCCGG	ATTCTCTTCT	GTTCTGTTAA	TGGTGAAATG	CCCGAGAGAA
GAGTTGCCAA	CTTTGGCAAA	TAAAAAATAC	AGGATTCCAG	TTAAATTCAA	ATTTAGATAA	ACAACAATTT
TTTAGTATTA	GTGTGTCCCA	TTCAATATTT	GGACATACTT	AACTAAAAAA	TGATTTGTTG	TTCATCTGAA
ATACAAATTT	AACTGGGCAT	TCTGAATATT	CTCTGGCAAC	CCCCGAGAGA	GTGAAGAAAG	TGGTACAAGG
ACACTTAAGA	AGACCAGATT	TGAAAAGACA	TTACGGATGT	GTTTAAATGT	CTTATTCTAG	AGAGAGTTAG
AGCTGTAGGT	AGAACTTGGG	AAATTAAGTT	AAAAGCAGAC	ACAGAGACCT	GGCCAATATA	TACTAAGGAG
TGGATCACTC	TGGTCACAAG	CCCAACCTGA	GACCAAGGGC	ATAGTGAGAT	GATTTGGGAA	AGGCACTTAT
ACACTACTCA	TCCCCGTCTT	TGAACTAAAT	GCCTTATAAA	TCTCCAAGAG	AAATGACAGT	CCACCATGTG
GACTGCTTTC	TGTAAGTCCA	GGGAAAATAA	AAGCTATGTG	CTTGAAACCC	ACTTCTGATA	TTATAAGGTG
TGTGATCTTT	GTCATGTTAA	TGGGTCTGAG	TATCAATTCT	ACAATTGTAA	AGTGACAGTA	ATGGTGTGTC
CCCAGGTTGT	TGTGGAAAGC	TTGATTCTTA	ATGCAACAGT	AGGAAACCCC	AGCCTCTCTG	GAGCAAACAC
CCTTCTACAT	CTTTACTTCC	CCTGCACATT	GGCAGGACTC	TATTCCTCTA	TTTCTCTCTA	GTGCTAGAGC
AGAAAGGGAC	CTTGATTTGA	TATCAGGAAA	ATCTATTTCT	GAACCATAAG	CTATGATAGC	TGATTTAAAA
AATTGACTAT	CATGACATGA	TAATGATCAT	AATGGTAATA	CATATTGATA	GGGTTGCCGT	GAAAGTAATA
ATATATCTAA	GAGTTGTGAC	AATATATGAT	ACGCCTAGAC	TCTCAGAAAA	TGCTAATTCC	AATCCCAATT
GCTCTTTGCA	TAAAGTTCTG	TCCTAGGGTC	TGTTCTTTTC	CCACATCTAC	CCTCCTTGGA	TCTCTCTTCT
GTCTTTTTCA	TGTGGTTCAG	AGGAGGAGAG	AGATCCAGGT	CAATGTTTTT	CAAATTACAA	GGAATTATCA
TTTAAATGGG	GAAGAAGCTC	AAGTTTTGAC	GTGTAGTGGA	ATTGGAGTGG	AGTGGAGTGG	AATGGAAACT
AACAGGAAGA	CACTGCACAT	GGTTAAGATA	AAGATTGTTT	CCTGAAACCT	TTAATTTGTG	CTTACATACT
CACACATACA	TATGTGCATG	CACTGGGACT	CTGCAATATG	CATTTCTGAC	TATGGAACAT	AGCCATAAAA
GTCTTTGCAC	TGAACGTTCA	GTGGGCCTTT	CACAAGCTGC	CCTAATTGGG	AAAGAAAAAC	ATGGTCCCTC
CATTTCCTGC	CCCCAACTCC	AGAAAAGTCA	CCATAGTTGA	GGGTACATCT	GAGAAGCCAG	CACTTGGGAG
TTCAGGGCTC	AAGTTCCTTT	CTAGAAAAAC	ACTGGGTGAT	TCTAGGGGAA	CTTCCGATCA	GAAACAGCCA
ATTCAGAGTG	AGAGAAGAAA	ACGTGACCAT	GCAGTTCCTG	TGGTTACCAG	CCTTGCCCCT	CTCTTGCCTT
CTGGGAGTTA	TAAAACCCAA	GACTGGAAAG	GAAAACCAGC	ATTTGCTCAG	GCAGCCTCTC	TGGGAAGATG
CTGCTTCTTC	CTCTCCCCCT	GCTGCTCTTT	CTCTTGTGCT	CCAGAGCTGA	AGCTGGTGAG	TATCAGGGTT
CTTCCCTCTG	AAATCTGCAG	TATCAGCTCC	TGAAACAAAG	ATGTTTAGTC	TGAAATAGCT	GACTCCTAAA
CAGGGTTCCA	AGATCTCTCT	TCAAGAGTCC	CACAGAGGAA	ATTTCCACTT	GGGATGTGTG	CCACCCCACC
CCCACCCCCA	CCCACTGCCA	TTCTCTACAG	CCTAGGACAC	CCCCAGGAAC	AAGGAATTTC	ACCTCAATTG

TAGAAAAGCC	CAGAGCAAGT	GGAAGGAAAA	GGGGTATCCC	CAGGAAAACA	GACATGTCCT	CTTAATCTTC
TGAGCATCAG	GGCTACCCAT	TACTTTGTGA	CTTTCTCACT	CTGTGACCAT	GCTCAAGAGC	TATGGAGAAA
TCTAAAACAG	GAACCTGGAC	AGTGGGTCCT	ACACAGAGAC	AGAGGAGAGT	GGGCCAGGGC	AAGGTGGGAG
TGGGAGAAGT	CTGAGATGAA	AACATCAGAA	TGGAGCAGAG	GCAAGAATGA	GATTTCACCT	GGGAGGTTAT
GGGTGGGGAA	AGATACGAAA	TACAGGAGAC	AGGAGAGGGA	AGATGGGCGG	AACACAGGGT	GAGAATGAGA
TTCCAGGGAA	GCCTAGCTCA	GCTTTAACCC	AATTTGTCCA	TTCATTGGAG	AGAGTATCTA	TGGCCGTGTT
CAAACCCTGG	GGTGCTCTGT	TCCAGGGGAG	ATCATCGGGG	GCACAGAATG	CAAGCCACAT	TCCCGCCCCT
ACATGGCCTA	CCTGGAAATT	GTAACTTCCA	ACGGTCCCTC	AAAATTTTGT	GGTGGTTTCC	TTATAAGACG
GAACTTTGTG	CTGACGGCTG	CTCATTGTGC	AGGAAGGTGA	GACAACAGGG	TCTATTTATC	TCCAAATGGG
AGATGAACAA	CCAGAGTAGC	ATCCAGGAAT	ACACCTGCAC	TGGGGACTGA	AGAGGGGGTC	CTGGGTCTTG
TCAACTTTCA	GGAGAGGGAA	GACTTTGGGC	TGAAAGACTT	TAGTCTGTGT	TTGAATAGTT	CCTTGAGCCT
CAGTCACTGA	GCTAAGCTCC	CTTCGGAGGA	AAAGGAGGTC	CTGTCCGAAG	GTCCCTCTTG	TTGCAGTAGC
ACCCCTCACC	CCTACCCAAC	TCAAGACACA	CGGCTCACTT	TTCAGGGCCC	CACCCAGTCT	CAGGGCCACT
TCCTCTATGG	CCTTTTCAAG	AACACTGGCT	CTAGTTCTCA	GGGTCCTGAA	CCCATCATTT	TATGGGAGCA
GAGAACAGGT	CTACATAAGA	CCCCCACTTT	CCCGTTTTAA	CTGATATCTC	CTGCTTCAGG	GGCTGGCCCT
CATGCAGGGT	TCCCTGAATT	AGGAAGTGTG	AACCCTGTCC	CCTGAGTCCT	CCCTGGCCTG	TTCAGTCCCC
AGCAATTCCA	GGGGTCGTAG	AAATTGTGTC	TGTTTCCTGA	GAAAGCTCTT	TCATGAGTTA	AGCCTGAGCC
CTCAAATGCC	ACAAGTGGCC	CATGAAAAGG	GAGATGGGTA	GAGTCCGGCN	ACCCAGTGAC	AGAGTTTAGT
CCTCTTTTCT	CAGAATGAGC	TCACCTCAGA	AGAAACCCCA	AGCCATCACT	GTCGCCTCCT	TTTCCTTCCT
TCTTCCTCAC	AGCAGGTCTA	TAACAGTCAC	CCTTGGAGCC	CATAACATAA	CAGAGGAAGA	AGACACATGG
CAGAAGCTTG	AGGTTATAAA	GCAATTCCGT	CATCCAAAAT	ATAACACTTC	TACTCTTCAC	CACGATATCA
TGTTACTAAA	GGTGACAACA	CCTCTCTTCT	CCCTTTCCAC	TTCCCATTCT	CCTAAGCTTC	TCCTTCAGGT
CCTCATTGCC	CTGAATTTTT	CTTAGGACTT	GGCTATAACA	TGAAGCTACT	CACCCTGTCC	CTCCCTGATC
ACCTCCAACT	GTCCAGAGCC	CATTTCGAGG	ACTGACAGTC	CTTCATTCCC	TTCACAGTTG	AAGGAGAAAG
CCAGCCTGAC	CCTGGCTGTG	GGGACACTCC	CCTTCCCATC	ACAATTCAAC	TTTGTCCCAC	CTGGGAGAAT
GTGCCGGGTG	GCTGGCTGGG	GAAGAACAGG	TGTGTTGAAG	CCGGGCTCAG	ACACTCTGCA	AGAGGTGAAG
CTGAGACTCA	TGGATCCCCA	GGCCTGCAGC	CACTTCAGAG	ACTTTGACCA	CAATCTTCAG	CTGTGTGTGG
GCAATCCCAG	GAAGACAAAA	TCTGCATTTA	AGGTGATCCT	CCAACTAGGT	TTCCTCTCCA	AAACTCACTG
TTCAGGGACC	TGAATGCTCT	TAGAAGGAGA	TGGGGTCAGC	AGGTTGTCAG	TCAGGTGACA	GGGTGAGCAT
CACAGGAATT	GCTGTCCTCC	CGTGGTCCAA	GACAGCCTCT	GACCATCCAT	TCCAGTCTAC	TGCACTGGGG
GCATGGGGTG	ACTGTGGAGA	ATGTGGATGA	CGGTCCCAAG	AAAGGAAGAA	GGGGCATCAG	AACTAGATGT
ATAAGTGAGG	AGCTCCACCT	CCTGGGTCTG	ACTTTAGGTC	TCACTGTGAC	TCCAAGCTGG	CTGGCAGACA
GGAGTGGAGG	ACTTCCCGGG	CTCACCTTCT	TCTCTCTCTC	CTCCCCCTAC	AGGGAGACTC	TGGGGGCCCT
CTTCTGTGTG	CTGGGGTGGC	CCAGGGCATC	GTATCCTATG	GACGGTCGGA	TGCAAAGCCC	CCTGCTGTCT
TCACCCGAAT	CTCCCATTAC	CGGCCCTGGA	TCAACCAGAT	CCTGCAGGCA	AATTAATCCT	GGATCCTGAG
CCAGCCTGAA	GGGAAGCTGG	AACTGGACCT	TAGCAGCAAA	GTGTGTGCAA	CTCATTCTGG	TTCTACCCTT
GGTTCCCTCA	GCCACAACCC	TAAGCCTCCA	AGAGGTCTCC	TACAGGTAAC	AGAACTTTCA	ATAAACTTCA
GTGAAGACAC	AGCTTCTAGT	CGTGAGTGTG	TGTCCCTCTC	TGCTGCTCTC	TTCTCCTGCA	CATGTGACCT
GATTCCCAGC	CCAAGCACCA	AGGA ATCATCG	GGG GCACAGAA	TC CAAGCCACAT	TCCCGCCCCT	ACATGGCCTA
CCTGGAAATT	GTAACTTCCA	ACGGTCCCTC	AAAATTTTGT	GGTGGTTTCC	TTATAAGACG	GAACTTTGTG
CTGACGGCTG	CTCATTGTGC	AGGAAGGTCT	ATAACAGTCA	CCCTTGGAGC	CCATAACATA	ACAGAGGAAG
AAGACACATG	GCAGAAGCTT	GAGGTTATAA	AGCAATTCCG	TCATCCAAAA	TATAACACTT	CTACTCTTCA
CCACGATATC	ATGTTACTAA	AGTTGAAGGA	GAAAGCCAGC	CTGACCCTGG	CTGTGGGGAC	ACTCCCCTTC
CCATCACAAT	TCAACTTTGT	CCCACCTGGG	AGAATGTGCC	GGGTGGCTGG	CTGGGGAAGA	ACAGGTGTGT
TGAAGCCGGG	CTCAGACACT	CTGCAAGAGG	TGAAGCTGAG	ACTCATGGAT	CCCCAGGCCT	GCAGCCACTT
CAGAGACTTT	GACCACAATC	TTCAGCTGTG	TGTGGGCAAT	CCCAGGAAGA	CAAAATCTGC	ATTTAAGGGA
GACTCTGGGG	GCCCTCTTCT	GTGTGCTGGG	GTGGCCCAGG	GCATCGTATC	CTATGGACGG	TCGGATGCAA
AGCCCCCTGC	TGTCTTCACC CO	GAATCTCCC ATT	ACCGGCC CTGGA	TCAAC CAGATCCT	GC AGGCAAATTA	A

(2) INFORMATION FOR SEQ ID NO:3016:

⁽i) SEQUENCE CHARACTERISTICS:

⁽A) LENGTH: 3117 base pairs

⁽B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3016:

(XI)	PECORNCE DE	SCRIFTION. SI	3Q ID NO.3010	•		
CTGCCCCBGT 1	TTTGBTCCT	CBCBTGCCGT	GGGGBGGBCB	BTGGCTGCCT	CCCCGGGGTT	TCTGCTGCTT
GCTGCTTCTT	CCCGTCTCC	CTTCTTTCCC	GTCTCCTTTT	TGCCTCTTTG	GGTTCCTGTT	GTTTCTGGCC
TGCTTGGTGG (CGGCTTGTGC	GTTTCCTCTC	TCTTCTCTTG	GGTCTCCGCT	TCTCGTCCTG	CCTTTTCCTG
TCTCTGTCGC C	CCGTTCCTC	CTCCGGCGTC	CTCCTGCCCT	GTGCTGTTTG	CCTCGGGTGG	TGCGGGTCCC
GGTGCTCCCC (CGGCGGGCCG	GCTGGTTGCC	TGGGCCTGTC	TGGTGGGGTG	TGGGGCCGCT	GGGTTGGGGG
TGTGGTGGGC	CTTCTGTGG	CCTGTGGGGC	TGTTGGTGTC	TCTGTGGGCG	TGTGCTGGGT	CTTGGGGCTT
CCTCCCTTGT C	CTGGGTGCG	GCCTCCCCGC	CCCCCTTCTG	GGCCGGTGGC	CTGGCTCCTT	GTGGGCGCTT
CTGGCTCTTG CC	CTGTCCTT C	TTCGCCTCG TG	CTGCTGG GCTG	C CATATGTA	TG GGAATACTGT	ATTTCAGGCA
TTATAAGGAA	rgaaattata	GGCCGGGCAT	TGTGGCTAAC	CCTTGTAATC	CTAGCACTTT	GAGAGGCTGA
AGTGGGCAGA T	CACTTGAGC	TTCAGAGTTC	GAGACCAGCA	TGGACAACAT	GGTGAAACCC	AGTCTCTACC
AAAAACACAA A	AATATTAGC	TGGGTGTGGT	GGTGCATGCC	TGTAGTCCCA	GCTACTCAGG	AGGCTGAGGT
GGGAGGATCG (CTTGAGCCTG	GGAGGCAGAA	GTTGCAATGA	GCAGAGATCG	TGCCACTCCG	CTCCAGTCTT
GGTGACAGAA	rgagactcca	TCTCAAAAAT	AAATAAATAA	ATAAATAAAA	TAAATGAAAT	GAAATTATAA
GAAATTACCA (CTTTTTCATG	TAAGAAGTGA	TCATTTCCAT	TATAAGGGAA	GGAATTTAAT	CCTACCTGCC
ATTCCACCAA A	AGCTTACCTA	GTGCTAAAGG	ATGAGGTGTT	AGTAAGACCA	ACATCTCAGA	GGCCTCTCTG
TGCCAATAGC (CTTCCTTCCT	TTCCCTTCCA	AAAACCTCAA	GTGACTAGTT	CAGAGGCCTG	TCTGGAATAA
TGGCATCATC T	TAATATCACT	GGCCTTCTGG	AACCTGGGCA	TTTTCCAGTG	TGTTCCATAC	TGTCAATATT
CCCCCAGCTT (CCTGGACTCC	TGTCACAAGC	TGGAAAAGTG	AGAGGATGGA	CAGGGATTAA	CCAGAGAGCT
CCCTGCTGAG C	GAAAAAATCT	CCCAGATGCT	GAAAGTGAGG	CCATGTGGCT	TGGCCAAATA	AAACCTGGCT
CCGTGGTGCC	CTGTCTTAG	CAGCCACCCT	GCTGATGAAC	TGCCACCTTG	GACTTGGGAC	CAGAAAGAGG
TGGGTTGGGT (GAAGAGGCAC	CACACAGAGT	GATGTAACAG	CAAGATCAGG	TCACCCACAG	GCCCTGGCAG
TCACAGTCAT A	AAATTAGCTA	ACTGTACACA	AGCTGGGGAC	ACTCCCTTTG	GAAACCAAAA	AAAAAAAAA
AAAAAAGAGA (CCTTTATGCA	AAAACAACTC	TCTGGATGGC	ATGGGGTGAG	TATAAATACT	TCTTGGCTGC
CAGTGTGTTC A	ATAACTTTGT	AGCGAGTCGA	AAACTGAGGC	TCCGGCCGCA	GAGAACTCAG	CCTCATTCCT
GCTTTAAAAT (CTCTCGGCCA	CCTTTGATGA	GGGGACTGGG	CAGTTCTAGA	CAGTCCCGAA	GTTCTCAAGG
CACAGGTCTC T	TCCTGGTTT	GACTGTCCTT	ACCCCGGGGA	GGCAGTGCAG (CCAGCTGCAA GG	TGAGTTGC C
CATATGTATG (GGAATACTGT	ATTTCAGGCA	TTATAAGGAA	TGAAATTATA	GGCCGGGCAT	TGTGGCTAAC
CCTTGTAATC (CTAGCACTTT	GAGAGGCTGA	AGTGGGCAGA	TCACTTGAGC	TTCAGAGTTC	GAGACCAGCA
TGGACAACAT (GTGAAACCC	AGTCTCTACC	AAAAACACAA	AAATATTAGC	TGGGTGTGGT	GGTGCATGCC
TGTAGTCCCA (GCTACTCAGG	AGGCTGAGGT	GGGAGGATCG	CTTGAGCCTG	GGAGGCAGAA	GTTGCAATGA
GCAGAGATCG T	rgccactccg	CTCCAGTCTT	GGTGACAGAA	TGAGACTCCA	TCTCAAAAAT	AAATAAATAA
ATAAATAAAA 1	TAAATGAAAT	GAAATTATAA	GAAATTACCA	CTTTTTCATG	TAAGAAGTGA	TCATTTCCAT
TATAAGGGAA (GGAATTTAAT	CCTACCTGCC	ATTCCACCAA	AGCTTACCTA	GTGCTAAAGG	ATGAGGTGTT
AGTAAGACCA A	ACATCTCAGA	GGCCTCTCTG	TGCCAATAGC	CTTCCTTCCT	TTCCCTTCCA	AAAACCTCAA
GTGACTAGTT (CAGAGGCCTG	TCTGGAATAA	TGGCATCATC	TAATATCACT	GGCCTTCTGG	AACCTGGGCA
TTTTCCAGTG	TGTTCCATAC	TGTCAATATT	CCCCCAGCTT	CCTGGACTCC	TGTCACAAGC	TGGAAAAGTG
AGAGGATGGA (CAGGGATTAA	CCAGAGAGCT	CCCTGCTGAG	GAAAAAATCT	CCCAGATGCT	GAAAGTGAGG
CCATGTGGCT	rggccaaata	AAACCTGGCT	CCGTGGTGCC	TCTGTCTTAG	CAGCCACCCT	GCTGATGAAC
TGCCACCTTG (GACTTGGGAC	CAGAAAGAGG	TGGGTTGGGT	GAAGAGGCAC	CACACAGAGT	GATGTAACAG
CAAGATCAGG	rcacccacag	GCCCTGGCAG	TCACAGTCAT	AAATTAGCTA	ACTGTACACA	AGCTGGGGAC
ACTCCCTTTG (GAAACCAAAA	АААААААА	AAAAAAGAGA	CCTTTATGCA	AAAACAACTC	TCTGGATGGC
ATGGGGTGAG	TATAAATACT	TCTTGGCTGC	CAGTGTGTTC	ATAACTTTGT	AGCGAGTCGA	AAACTGAGGC
TCCGGCCGCA (GAGAACTCAG	CCTCATTCCT	GCTTTAAAAT	CTCTCGGCCA	CCTTTGATGA	GGGGACTGGG
CAGTTCTAGA (CAGTCCCGAA	~~~~~~~~			C A COMCOMO	
	MOICCCOAA	GTTCTCAAGG	CACAGGTCTC	TTCCTGGTTT	GACTGTCCTT	ACCCCGGGGA
GGCAGTGCAG CC			CACAGGTCTC	TTCCTGGTTT	GACTGTCCTT	ACCCCGGGGA

- (2) INFORMATION FOR SEQ ID NO:3017:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8222 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3017:

(XI)	SEQUENCE DES	CRIPITON: SE	7 ID NO:3017:			
CTGCTTTAAA	ATCTCTCGGC	CACCTTTGAT	GAGGGGACTG	GGCAGTTCTA	GACAGTCCCG	AAGTTCTCAA
GGCACAGGTC	TCTTCCTGGT	TTGACTGTCC	TTACCCCGGG	GAGGCAGTGC	AGCCAGCTGC	AAGCCCCACA
GTGAAGAACA	TCTGAGCTCA	AATCCAGATA	AGTGACATAA	GTGACCTGCT	TTGTAAAGCC	ATAGAGATGG
CCTGTCCTTG	GAAATTTCTG	TTCAAGACCA	AATTCCACCA	GTATGCAATG	AATGGGGAAA	AAGACATCAA
CAACAATGTG	GAGAAAGCCC	CCTGTGCCAC	CTCCAGTCCA	GTGACACAGG	ATGACCTTCA	GTATCACAAC
CTCAGCAAGC	AGCAGAATGA	GTCCCCGCAG	CCCCTCGTGG	AGACGGGAAA	GAAGTCTCCA	GAATCTCTGG
TCAAGCTGGA	TGCAACCCCA	TTGTCCTCCC	CACGGCATGT	GAGGATCAAA	AACTGGGGCA	GCGGGATGAC
TTTCCAAGAC	ACACTTCACC	ATAAGGCCAA	AGGGATTTTA	ACTTGCAGGT	CCAAATCTTG	CCTGGGGTCC
ATTATGACTC	CCAAAAGTTT	GACCAGAGGA	CCCAGGGACA	AGCCTACCCC	TCCAGATGAG	CTTCTACCTC
AAGCTATCGA	ATTTGTCAAC	CAATATTACG	GCTCCTTCAA	AGAGGCAAAA	ATAGAGGAAC	ATCTGGCCAG
GGTGGAAGCG	GTAACAAAGG	AGATAGAAAC	AACAGGAACC	TACCAACTGA	CGGGAGATGA	GCTCATCTTC
GCCACCAAGC	AGGCCTGGCG	CAATGCCCCA	CGCTGCATTG	GGAGGATCCA	GTGGTCCAAC	CTGCAGGTCT
TCGATGCCCG	CAGCTGTTCC	ACTGCCCGGG	AAATGTTTGA	ACACATCTGC	AGACACGTGC	GTTACTCCAC
CAACAATGGC	AACATCAGGT	CGGCCATCAC	CGTGTTCCCC	CAGCGGAGTG	ATGGCAAGCA	CGACTTCCGG
GTGTGGAATG	CTCAGCTCAT	CCGCTATGCT	GGCTACCAGA	TGCCAGATGG	CAGCATCAGA	GGGGACCCTG
CCAACGTGGA	ATTCACTCAG	CTGTGCATCG	ACCTGGGCTG	GAAGCCCAAG	TACGGCCGCT	TCGATGTGGT
CCCCCTGGTC	CTGCAGGCCA	ATGGCCGTGA	CCCTGAGCTC	TTCGAAATCC	CACCTGACCT	TGTGCTTGAG
GTGGCCATGG	AACATCCCAA	ATACGAGTGG	TTTCGGGAAC	TGGAGCTAAA	GTGGTACGCC	CTGCCTGCAG
TGGCCAACAT	GCTGCTTGAG	GTGGGCGGCC	TGGAGTTCCC	AGGGTGCCCC	TTCAATGGCT	GGTACATGGG
CACAGAGATC	GGAGTCCGGG	ACTTCTGTGA	CGTCCAGCGC	TACAACATCC	TGGAGGAAGT	GGGCAGGAGA
ATGGGCCTGG	AAACGCACAA	GCTGGCCTCG	CTCTGGAAAG	ACCAGGCTGT	CGTTGAGATC	AACATTGCTG
TGATCCATAG	TTTTCAGAAG	CAGAATGTGA	CCATCATGGA	CCACCACTCG	GCTGCAGAAT	CCTTCATGAA
GTACATGCAG	AATGAATACC	GGTCCCGTGG	GGGCTGCCCG	GCAGACTGGA	TTTGGCTGGT	CCCTCCCATG
TCTGGGAGCA	TCACCCCCGT	GTTTCACCAG	GAGATGCTGA	ACTACGTCCT	GTCCCCTTTC	TACTACTATC
AGGTAGAGGC	CTGGAAAACC	CATGTCTGGC	AGGACGAGAA	GCGGAGACCC	AAGAGAAGAG	AGATTCCATT
GAAAGTCTTG	GTCAAAGCTG	TGCTCTTTGC	CTGTATGCTG	ATGCGCAAGA	CAATGGCGTC	CCGAGTCAGA
GTCACCATCC	TCTTTGCGAC	AGAGACAGGA	AAATCAGAGG	CGCTGGCCTG	GGACCTGGGG	GCCTTATTCA
GCTGTGCCTT	CAACCCCAAG	GTTGTCTGCA	TGGATAAGTA	CAGGCTGAGC	TGCCTGGAGG	AGGAACGGCT
GCTGTTGGTG	GTGACCAGTA	CGTTTGGCAA	TGGAGACTGC	CCTGGCAATG	GAGAGAAACT	GAAGAAATCG
CTCTTCATGC	TGAAAGAGCT	CAACAACAAA	TTCAGGTACG	CTGTGTTTGG	CCTCGGCTCC	AGCATGTACC
CTCGGTTCTG	CGCCTTTGCT	CATGACATTG	ATCAGAAGCT	GTCCCACCTG	GGGGCCTCTC	AGCTCACCCC
GATGGGAGAA	GGGGATGAGC	TCAGTGGGCA	GGAGGACGCC	TTCCGCAGCT	GGGCCGTGCA	AACCTTCAAG
GCAGCCTGTG	AGACGTTTGA	TGTCCGAGGC	AAACAGCACA	TTCAGATCCC	CAAGCTCTAC	ACCTCCAATG
TGACCTGGGA	CCCGCACCAC	TACAGGCTCG	TGCAGGACTC	ACAGCCTTTG	GACCTCAGCA	AAGCCCTCAG
CAGCATGCAT	GCCAAGAACG	TGTTCACCAT	GAGGCTCAAA	TCTCGGCAGA	ATCTACAAAG	TCCGACATCC
AGCCGTGCCA	CCATCCTGGT	GGAACTCTCC	TGTGAGGATG	GCCAAGGCCT	GAACTACCTG	CCGGGGGAGC
ACCTTGGGGT	TTGCCCAGGC	AACCAGCCGG	CCCTGGTCCA	AGGCATCCTG	GAGCGAGTGG	TGGATGGCCC
CACACCCCAC	CAGACAGTGC	GCCTGGAGGA	CCTGGATGAG	AGTGGCAGCT	ACTGGGTCAG	TGACAAGAGG
CTGCCCCCT	GCTCACTCAG	CCAGGCCCTC	ACCTACTCCC	CGGACATCAC	CACACCCCCA	ACCCAGCTGC
TGCTCCAAAA	GCTGGCCCAG	GTGGCCACAG	AAGAGCCTGA	GAGACAGAGG	CTGGAGGCCC	TGTGCCAGCC
CTCAGAGTAC	AGCAAGTGGA	AGTTCACCAA	CAGCCCCACA	TTCCTGGAGG	TGCTAGAGGA	GTTCCCGTCC
CTGCGGGTGT	CTGCTGGCTT	CCTGCTTTCC	CAGCTCCCCA	TTCTGAAGCC	CAGGTTCTAC	TCCATCAGCT
CCTCCCGGGA	TCACACGCCC	ACGGAGATCC	ACCTGACTGT	GGCCGTGGTC	ACCTACCACA	CCGGAGATGG
CCAGGGTCCC	CTGCACCACG	GTGTCTGCAG	CACATGGCTC	AACAGCCTGA	AGCCCCAAGA	CCCAGTGCCC
TGCTTTGTGC	GGAATGCCAG	CGCCTTCCAC	CTCCCCGAGG	ATCCCTCCCA	TCCTTGCATC	CTCATCGGGC
CTGGCACAGG	CATCGTGCCC	TTCCGCAGTT	TCTGGCAGCA	ACGGCTCCAT	GACTCCCAGC	ACAAGGGAGT
GCGGGGAGGC	CGCATGACCT	TGGTGTTTGG	GTGCCGCCGC	CCAGATGAGG	ACCACATCTA	CCAGGAGGAG
ATGCTGGAGA	TGGCCCAGAA	GGGGGTGCTG	CATGCGGTGC	ACACAGCCTA	TTCCCGCCTG	CCTGGCAAGC
CCAAGGTCTA	TGTTCAGGAC	ATCCTGCGGC	AGCAGCTGGC	CAGCGAGGTG	CTCCGTGTGC	TCCACAAGGA

GCCAGGCCAC	CTCTATGTTT	GCGGGGATGT	GCGCATGGCC	CGGGACGTGG	CCCACACCCT	GAAGCAGCTG
GTGGCTGCCA	AGCTGAAATT	GAATGAGGAG	CAGGTCGAGG	ACTATTTCTT	TCAGCTCAAG	AGCCAGAAGC
GCTATCACGA	AGATATCTTC	GGTGCTGTAT	TTCCTTACGA	GGCGAAGAAG	GACAGGGTGG	CGGTGCAGCC
CAGCAGCCTG	GAGATGTCAG	CGCTCTGAGG	GCCTACAGGA	GGGGTTAAAG	CTGCCGGCAC	AGAACTTAAG
GATGGAGCCA	GCTCTGCATT	ATCTGAGGTC	ACAGGGCCTG	GGGAGATGGA	GGAAAGTGAT	ATCCCCCAGC
CTCAAGTCTT	ATTTCCTCAA	CGTTGCTCCC	CATCAAGCCC	TTTACTTGAC	CTCCTAACAA	GTAGCACCCT
GGATTGATCG	GAGCCTCCTC	TCTCAAACTG	GGGCCTCCCT	GGTCCCTTGG	AGACAAAATC	TTAAATGCCA
GGCCTGGCGA	GTGGGTGAAA	GATGGAACTT	GCTGCTGAGT	GCACCACTTC	AAGTGACCAC	CAGGAGGTGC
TATCGCACCA	CTGTGTATTT	AACTGCCTTG	TGTACAGTTA	TTTATGCCTC	TGTATTTAAA	AAACTAACAC
CCAGTCTGTT	CCCCATGGCC	ACTTGGGTCT	TCCCTGTATG	ATTCCTTGAT	GGAGATATTT	ACATGAATTG
CATTTTACTT	TAATC GAAT	TCCCAC TCTGC	IGCCT GCTCCAG	CAG ACGGACGC	AC AGTAACATGG	GCAACTTGAA
GAGCGTGGCC	CAGGAGCCTG	GGCCACCCTG	CGGCCTGGGG	CTGGGGCTGG	GCCTTGGGCT	GTGCGGCAAG
CAGGGCCCAG	CCACCCCGGC	CCCTGAGCCC	AGCCGGGCCC	CAGCATCCCT	ACTCCCACCA	GCGCCAGAAC
ACAGCCCCCC	GAGCTCCCCG	CTAACCCAGC	CCCCAGAGGG	GCCCAAGTTC	CCTCGTGTGA	AGAACTGGGA
GGTGGGGAGC	ATCACCTATG	ACACCCTCAG	CGCCCAGGCG	CAGCAGGATG	GGCCCTGCAC	CCCAAGACGC
TGCCTGGGCT	CCCTGGTATT	TCCACGGAAA	CTACAGGGCC	GGCCCTCCCC	CGGCCCCCG	GCCCCTGAGC
AGCTGCTGAG	TCAGGCCCGG	GACTTCATCA	ACCAGTACTA	CAGCTCCATT	AAGAGGAGCG	GCTCCCAGGC
CCACGAACAG	CGGCTTCAAG	AGGTGGAAGC	CGAGGTGGCA	GCCACAGGCA	CCTACCAGCT	TAGGGAGAGC
GAGCTGGTGT	TCGGGGCTAA	GCAGGCCTGG	CGCAACGCTC	CCCGCTGCGT	GGGCCGGATC	CAGTGGGGGA
AGCTGCAGGT	GTTCGATGCC	CGGGACTGCA	GGTCTGCACA	GGAAATGTTC	ACCTACATCT	GCAACCACAT
CAAGTATGCC	ACCAACCGGG	GCAACCTTCG	CTCGGCCATC	ACAGTGTTCC	CGCAGCGCTG	CCCTGGCCGA
GGAGACTTCC	GAATCTGGAA	CAGCCAGCTG	GTGCGCTACG	CGGGCTACCG	GCAGCAGGAC	GGCTCTGTGC
GGGGGGACCC	AGCCAACGTG	GAGATCACCG	AGCTCTGCAT	TCAGCACGGC	TGGACCCCAG	GAAACGGTCG
CTTCGACGTG	CTGCCCCTGC	TGCTGCAGGC	CCCAGATGAG	CCCCCAGAAC	TCTTCCTTCT	GCCCCCGAG
CTGGTCCTTG	AGGTGCCCCT	GGAGCACCCC	ACGCTGGAGT	GGTTTGCAGC	CCTGGGCCTG	CGCTGGTACG
CCCTCCCGGC	AGTGTCCAAC	ATGCTGCTGG	AAATTGGGGG	CCTGGAGTTC	CCCGCAGCCC	CCTTCAGTGG
CTGGTACATG	AGCACTGAGA	TCGGCACGAG	GAACCTGTGT	GACCCTCACC	GCTACAACAT	CCTGGAGGAT
GTGGCTGTCT	GCATGGACCT	GGATACCCGG	ACCACCTCGT	CCCTGTGGAA	AGACAAGGCA	GCAGTGGAAA
TCAACGTGGC	CGTGCTGCAC	AGTTACCAGC	TAGCCAAAGT	CACCATCGTG	GACCACCACG	CCGCCACGGC
CTCTTTCATG	AAGCACCTGG	AGAATGAGCA	GAAGGCCAGG	GGGGGCTGCC	CTGCAGACTG	GGCCTGGATC
GTGCCCCCCA	TCTCGGGCAG	CCTCACTCCT	GTTTTCCATC	AGGAGATGGT	CAACTATTTC	CTGTCCCCGG
CCTTCCGCTA	CCAGCCAGAC	CCCTGGAAGG	GGAGTGCCGC	CAAGGGCACC	GGCATCACCA	GGAAGAAGAC
CTTTAAAGAA	GTGGCCAACG	CCGTGAAGAT	CTCCGCCTCG	CTCATGGGCA	CGGTGATGGC	GAAGCGAGTG
AAGGCGACAA	TCCTGTATGG	CTCCGAGACC	GGCCGGGCCC	AGAGCTACGC	ACAGCAGCTG	GGGAGACTCT
TCCGGAAGGC	TTTTGATCCC	CGGGTCCTGT	GTATGGATGA	GTATGACGTG	GTGTCCCTCG	AACACGAGAC
GCTGGTGCTG	GTGGTAACCA	GCACATTTGG	GAATGGGGAT	CCCCCGGAGA	ATGGAGAGAG	CTTTGCAGCT
GCCCTGATGG	AGATGTCCGG	CCCCTACAAC	AGCTCCCCTC	GGCCGGAACA	GCACAAGAGT	TATAAGATCC
GCTTCAACAG	CATCTCCTGC	TCAGACCCAC	TGGTGTCCTC	TTGGCGGCGG	AAGAGGAAGG	AGTCCAGTAA
CACAGACAGT	GCAGGGGCCC	TGGGCACCCT	CAGGTTCTGT	GTGTTCGGGC	TCGGCTCCCG	GGCATACCCC
CACTTCTGCG	CCTTTGCTCG	TGCCGTGGAC	ACACGGCTGG	AGGAACTGGG	CGGGGAGCGG	CTGCTGCAGC
TGGGCCAGGG	CGACGAGCTG	TGCGGCCAGG	AGGAGGCCTT	CCGAGGCTGG	GCCCAGGCTG	CCTTCCAGGC
CGCCTGTGAG	ACCTTCTGTG	TGGGAGAGGA	TGCCAAGGCC	GCCGCCCGAG	ACATCTTCAG	CCCCAAACGG
AGCTGGAAGC	GCCAGAGGTA	CCGGCTGAGC	GCCCAGGCCG	AGGGCCTGCA	GTTGCTGCCA	GGTCTGATCC
ACGTGCACAG	GCGGAAGATG	TTCCAGGCTA	CAATCCGCTC	AGTGGAAAAC	CTGCAAAGCA	GCAAGTCCAC
GAGGGCCACC	ATCCTGGTGC	GCCTGGACAC	CGGAGGCCAG	GAGGGGCTGC	AGTACCAGCC	GGGGGACCAC
ATAGGTGTCT	GCCCGCCCAA	CCGGCCCGGC	CTTGTGGAGG	CGCTGCTGAG	CCGCGTGGAG	GACCCGCCGG
CGCCCACTGA	GCCCGTGGCA	GTAGAGCAGC	TGGAGAAGGG	CAGCCCTGGT	GGCCCTCCCC	CCGGCTGGGT
GCGGGACCCC	CGGCTGCCCC	CGTGCACGCT	GCGCCAGGCT	CTCACCTTCT	TCCTGGACAT	CACCTCCCCA
CCCAGCCCTC	AGCTCTTGCG	GCTGCTCAGC	ACCTTGGCAG	AAGAGCCCAG	GGAACAGCAG	GAGCTGGAGG
CCCTCAGCCA	GGATCCCCGA	CGCTACGAGG	AGTGGAAGTG	GTTCCGCTGC	CCCACGCTGC	TGGAGGTGCT
GGAGCAGTTC	CCGTCGGTGG	CGCTGCCTGC	CCCACTGCTC	CTCACCCAGC	TGCCTCTGCT	CCAGCCCCGG
TACTACTCAG	TCAGCTCGGC	ACCCAGCACC	CACCCAGGAG	AGATCCACCT	CACTGTAGCT	GTGCTGGCAT

ACAGGACTCA	GGATGGGCTG	GGCCCCCTGC	ACTATGGAGT	CTGCTCCACG	TGGCTAAGCC	AGCTCAAGCC
CGGAGACCCT	GTGCCCTGCT	TCATCCGGGG	GGCTCCCTCC	TTCCGGCTGC	CACCCGATCC	CAGCTTGCCC
TGCATCCTGG	TGGGTCCAGG	CACTGGCATT	GCCCCCTTCC	GGGGATTCTG	GCAGGAGCGG	CTGCATGACA
TTGAGAGCAA	AGGGCTGCAG	CCCACTCCCA	TGACTTTGGT	GTTCGGCTGC	CGATGCTCCC	AACTTGACCA
TCTCTACCGC	GACGAGGTGC	AGAACGCCCA	GCAGCGCGGG	GTGTTTGGCC	GAGTCCTCAC	CGCCTTCTCC
CGGGAACCTG	ACAACCCCAA	GACCTACGTG	CAGGACATCC	TGAGGACGGA	GCTGGCTGCG	GAGGTGCACC
GCGTGCTGTG	CCTCGAGCGG	GGCCACATGT	TTGTCTGCGG	CGATGTTACC	ATGGCAACCA	ACGTCCTGCA
GACCGTGCAG	CGCATCCTGG	CGACGGAGGG	CGACATGGAG	CTGGACGAGG	CCGGCGACGT	CATCGGCGTG
CTGCGGGATC	AGCAACGCTA	CCACGAAGAC	ATTTTCGGGC	TCACGCTGCG	CACCCAGGAG	GTGACAAGCC
GCATACGCAC	CCAGAGCTTT	TCCTTGCAGG	AGCGTCAGTT	GCGGGGCGCA	GTGCCCTGGG	CGTTCGACCC
TCCCGGCTCA	GACACCAACA	GCCCCTGAGA	GCCGCCTGGC	TTTCCCTTCC	AGTTCCGGGA	GAGCGGCTGC
CCGACTCAGG	TCCGCCCGAC	CAGGATCAGC	CCCGCTCCTC	CCCTCTTGAG	GTGGTGCCTT	CTCACATCTG
TCCAGAGGCT	GCAAGGATTC	AGCATTATTC	CTCCAGGAAG	GAGCAAAACG	CCTCTTTTCC	CTCTCTAGGC
CTGTTGCCTC	GGGCCTGGGT	CCGCCTTAAT	CTGGAAGGCC	CCTCCCAGCA	GCGGTACCCC	AGGGCCTACT
GCCACCCGCT	TCCTGTTTCT	TAGTCCGAAT	GTTAGATTCC	TCTTGCCTCT	CTCAGGAGTA	TCTTACCTGT
AAAGTCTAAT	CTCTAAATCA	AGTATTTATT	ATTGAAGATT	TACCATAAGG	GACTGTGCCA	GATGTTAGGA
GAACTACTAA	AGTGCCTACC CC	AGCTC				

(2) INFORMATION FOR SEQ ID NO:3018:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 48330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3018:

GGTGBCBTTG	BGCBTGTCGG	CGCGGTCCCG	TTBBGBGTGG	GCCCGCCAGC	CCAGCCACTC	CACTTGGGGG
CGGGTGGCCA	GCACGÁACAG	CACCCAGAGG	AAGGGGGGCG	GCCCAGAAGG	GCAGCCCGCA	GGCCAGGATC
AGGTCTGCTG	CGGCCGGAGA	TAATGGCATT	CACCACGCGG	CGGCCCAGCG	CACGCCGCGC	ATCCGGCCCG
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CTCGCCATCT	GTATCCTCCA	ATCATCTTCA	GTGCTTTGCT	GATAGAAGGT	ACGGAAATAC	GATGCCACAG
ACTGTCCAGG	AAGACAGAAA	CTAGGCAGAT	GGGCTGGCCA	TGGTCTCCAA	GCCAGACTGG	AATCTCCAGG
TCTGGAATGA	TATCATTTTT	CTCTTTTAAT	AAATTAACTC	ACCCACCACA	CGGCTTTGAG	AGGCTCAAAG
GTGACCAACT	CCCTTGGGAG	GGCCCCGGTT	GATAAGGAAG	GAATGTGAAT	CCTCCCATCA	CGGAAGCTTC
AAGGAGGTCA	AGGGTCCAAC	ACTTGAGATT	GTTAGTGCTG	TTGGTGGATA	CTGCAGAATA	TCCAGTGGAG
CCTCAGATGA	AGAACATGAG	GCCCCGTTTA	GATCCAAGGA	TCAGAGGGGG	CTCTGTAAGA	CCCAGGGGAG
TCAGGTGCAC	TGGAGCGCGG	GCTGCAGAAA	ACAGCCTGAG	CTCCACCTCG	GCTTCTCCTT	GCCCTGGCTG
GTTGTCCTTA	ACCCCTGTCT	CCTTCTGGAC	CAGTTTTTGT	CCTTCCCTTG	TGACCTGAGG	GGTAACAGCC
TCTTTTCCAC	TTTCTTTCAG	CGCCGACATG	CTCAATGTCA	CCTTGCAAGG	GCCCACTCTT	AACGGGACCT
TTGCCCAGAG	CAAATGCCCC	CAAGTGGAGT	GGCTGGGCTG	GCTCAACACC	ATCCAGCCCC	CCTTCCTCTG
GGTGCTGTTC	GTGCTGGCCA	CCCTAGAGAA	CATCTTTGTC	CTCAGCGTCT	TCTGCCTGCA	CAAGAGCAGC
TGCACGGTGG	CAGAGATCTA	CCTGGGGAAC	CTGGCCGCAG	CAGACCTGAT	CCTGGCCTGC	GGGCTGCCCT
TCTGGGCCAT	CACCATCTCC	AACAACTTCG	ACTGGCTCTT	TGGGGAGACG	CTCTGCCGCG	TGGTGAATGC
CATTATCTCC	ATGAACCTGT	ACAGCAGCAT	CTGTTTCCTG	ATGCTGGTGA	GCATCGACCG	CTACCTGGCC
CTGGTGAAAA	CCATGTCCAT	GGGCCGGATG	CGCGGCGTGC	GCTGGGCCAA	GCTCTACAGC	TTGGTGATCT
GGGGGTGTAC	GCTGCTCCTG	AGCTCACCCA	TGCTGGTGTT	CCGGACCATG	AAGGAGTACA	GCGATGAGGG
CCACAACGTC	ACCGCTTGTG	TCATCAGCTA	CCCATCCCTC	ATCTGGGAAG	TGTTCACCAA	CATGCTCCTG
AATGTCGTGG	GCTTCCTGCT	GCCCCTGAGT	GTCATCACCT	TCTGCACGAT	GCAGATCATG	CAGGTGCTGC
GGAACAACGA	GATGCAGAAG	TTCAAGGAGA	TCCAGACGGA	GAGGAGGCC	ACGGTGCTAG	TCCTGGTTGT
GCTGCTGCTA	TTCATCATCT	GCTGGCTGCC	CTTCCAGATC	AGCACCTTCC	TGGATACGCT	GCATCGCCTC
GGCATCCTCT	CCAGCTGCCA	GGACGAGCGC	ATCATCGATG	TAATCACACA	GATCGCCTCC	TTCATGGCCT
ACAGCAACAG	CTGCCTCAAC	CCACTGGTGT	ACGTGATCGT	GGGCAAGCGC	TTCCGAAAGA	AGTCTTGGGA
GGTGTACCAG	GGAGTGTGCC	AGAAAGGGGG	CTGCAGGTCA	GAACCCATTC	AGATGGAGAA	CTCCATGGGC
ACACTGCGGA	CCTCCATCTC	CGTGGAACGC	CAGATTCACA	AACTGCAGGA	CTGGGCAGGG	AGCAGACAGT
GAGCAAACGC	CAGCAGGGCT	GCTGTGAATT	TGTGTAAGGA	TTGAGGGACA	GTTGCTTTTC	AGCATGGGCC
CAGGAATGCC	AAGGAGACAT	CTATGCACGA	CCTTGGGAAA	TGAGTGTTGA	TGTCTCCGGT	AAAACACCGG
AGACTAATTC	CTGCCCTGCC	CAATTTTCGA	GGGAGCATGG	CTGTGAGGAT	GGGGTGAACT	CACGCACAGC
CAAGGACTCC	AAAATCACAA	CAGCATTACT	GTTCTTATTT	GCTGCCACAC	CTGAGCCAGC	CTGCTCCTTC
CCAGGAGTGG	AGGAGGCCTG	GGGGAGGGAG	AGGAGTGACT	GAGCTTCCCT	CCCGTGTGTT	CTCCGTCCCT
GCCCCAGCAA	GACAACTTAG	ATCTCCAGGA	GAACTGCCAT	CCACGTTTGG	TGCAATGGCT	GAGTGCACAA
GTGAGTTGTT	GCCCTGGGTT	TCTTTAATCT	ATCAGCTAGA	ACTTTGAAGG	ACAATTTCTT	GCATTAATAA
AGGTTAAGCC	CTGAGGGGTC	CCTTGATAAC	AACCTGGAGA	CCAGGATTTT	ATGGCTCCCC	TCACTGATGG
ACAAGGAGGT	CTGTGCCAAA GA	AGAATCAA TAA	GCACATA TGAGO	CACTTC TGTATA	TCAG TATTGAGC	AC TGTAGGCA
ATGTTCTCTC	CCTGGAAGAT	ATCAATGTTT	CTGTCTGTTT	GTGAGGACTC	CGTGCCCACC	ACGGCCTCTT
TCAGCGCCGA	CATGCTCAAT	GTCACCTTGC	AAGGGCCCAC	TCTTAACGGG	ACCTTTGCCC	AGAGCAAATG
CCCCCAAGTG	GAGTGGCTGG	GCTGGCTCAA	CACCATCCAG	CCCCCTTCC	TCTGGGTGCT	GTTCGTGCTG
GCCACCCTAG	AGAACATCTT	TGTCCTCAGC	GTCTTCTGCC	TGCACAAGAG	CAGCTGCACG	GTGGCAGAGA
TCTACCTGGG	GAACCTGGCC	GCAGCAGACC	TGATCCTGGC	CTGCGGGCTG	CCCTTCTGGG	CCATCACCAT
CTCCAACAAC	TTCGACTGGC	TCTTTGGGGA	GACGCTCTGC	CGCGTGGTGA	ATGCCATTAT	CTCCATGAAC
CTGTACAGCA	GCATCTGTTT	CCTGATGCTG	GTGAGCATCG	ACCGCTACCT	GGCCCTGGTG	AAAACCATGT
CCATGGGCCG	GATGCGCGGC	GTGCGCTGGG	CCAAGCTCTA	CAGCTTGGTG	ATCTGGGGGT	GTACGCTGCT
CCTGAGCTCA	CCCATGCTGG	TGTTCCGGAC	CATGAAGGAG	TACAGCGATG	AGGGCCACAA	CGTCACCGCT

TGTGTCATCA	GCTACCCATC	CCTCATCTGG	GAAGTGTTCA	CCAACATGCT	CCTGAATGTC	GTGGGCTTCC
TGCTGCCCCT	GAGTGTCATC	ACCTTCTGCA	CGATGCAGAT	CATGCAGGTG	CTGCGGAACA	ACGAGATGCÁ
GAAGTTCAAG	GAGATCCAGA	CGGAGAGGAG	GGCCACGGTG	CTAGTCCTGG	TTGTGCTGCT	GCTATTCATC
ATCTGCTGGC	TGCCCTTCCA	GATCAGCACC	TTCCTGGATA	CGCTGCATCG	CCTCGGCATC	CTCTCCAGCT
GCCAGGACGA	GCGCATCATC	GATGTAATCA	CACAGATCGC	CTCCTTCATG	GCCTACAGCA	ACAGCTGCCT
CAACCCACTG	GTGTACGTGA	TCGTGGGCAA	GCGCTTCCGA	AAGAAGTCTT	GGGAGGTGTA	CCAGGGAGTG
TGCCAGAAAG	GGGGCTGCAG	GTCAGAACCC	ATTCAGATGG	AGAACTCCAT	GGGCACACTG	CGGACCTCCA
TCTCCGTGGA	ACGCCAGATT	CACAAACTGC	AGGACTGGGC	AGGGAGCAGA	CAGTGAGCAA	ACGCCAGCAG
GGCTGCTGTG	AATTTGTGTA	AGGATTGAGG	GACAGTTGCT T	ATGTTCTCTC	CCTGGAAGAT	ATCAATGTTT
CTGTCTGTTC	GTGAGGACTC	CGTGCCCACC	ACGGCCTCTT	TCAGCGCCGA	CATGCTCAAT	GTCACCTTGC
AAGGGCCCAC	TCTTAACGGG	ACCTTTGCCC	AGAGCAAATG	CCCCCAAGTG	GAGTGGCTGG	GCTGGCTCAA
CACCATCCAG	CCCCCCTTCC	TCTGGGTGCT	GTTCGTGCTG	GCCACCCTAG	AGAACATCTT	TGTCCTCAGC
GTCTTCTGCC	TGCACAAGAG	CAGCTGCACG	GTGGCAGAGA	TCTACCTGGG	GAACCTGGCC	GCAGCAGACC
TGATCCTGGC	CTGCGGGCTG	CCCTTCTGGG	CCATCACCAT	CTCCAACAAC	TTCGACTGGC	TCTTTGGGGA
GACGCTCTGC	CGCGTGGTGA	ATGCCATTAT	CTCCATGAAC	CTGTACAGCA	GCATCTGTTT	CCTGATGCTG
GTGAGCATCG	ACCGCTACCT	GGCCCTGGTG	AAAACCATGT	CCATGGGCCG	GATGCGCGGC	GTGCGCTGGG
CCAAGCTCTA	CAGCTTGGTG	ATCTGGGGGT	GTACGCTGCT	CCTGAGCTCA	CCCATGCTGG	TGTTCCGGAC
CATGAAGGAG	TACAGCGATG	AGGGCCACAA	CGTCACCGCT	TGTGTCATCA	GCTACCCATC	CCTCATCTGG
GAAGTGTTCA	CCAACATGCT	CCTGAATGTC	GTGGGCTTCC	TGCTGCCCCT	GAGTGTCATC	ACCTTCTGCA
CGATGCAGAT	CATGCAGGTG	CTGCGGAACA	ACGAGATGCA	GAAGTTCAAG	GAGATCCAGA	CGGAGAGGAG
GGCCACGGTG	CTAGTCCTGG	TTGTGCTGCT	GCTATTCATC	ATCTGCTGGC	TGCCCTTCCA	GATCAGCACC
TTCCTGGATA	CGCTGCATCG	CCTCGGCATC	CTCTCCAGCT	GCCAGGACGA	GCGCATCATC	GATGTAATCA
CACAGATCGC	CTCCTTCATG	GCCTACAGCA	ACAGCTGCCT	CAACCCACTG	GTGTACGTGA	TCGTGGGCAA
GCGCTTCCGA	AAGAAGTCTT	GGGAGGTGTA	CCAGGGAGTG	TGCCAGAAAG	GGGGCTGCAG	GTCAGAACCC
ATTCAGATGG	AGAACTCCAT	GGGCACACTG	CGGACCTCCA	TCTCCGTGGA	ACGCCAGATT	CACAAACTGC
AGGACTGGGC	AGGGAGCAGA	CAGTGAGCAA	ACGCCAGCAG	GGCTGCTGTG	AATTTGTGTA	AGGATTGAGG
GACAGTTGCT	T GCCCTTCA	AA GATGAGCTG	T TCCCGCCGCC	ACTCCAGCTC	TGGCTTCTGG	GCTCCGAGGA
GGGGTGGGGA	CGGTGGGGAC	ATCAGGCTGC	CCCGCAGTAC	CAGGGAGCGA	CTGAAGTGCC	CATGCCGCTT
GCTCCGGAGA	AGGTGGGTGC	CGGGCAGGGG	CTGCTCCAGC	CGCCTCACCT	CTGCTGGGAG	GACAAACTGT
CCCAGCACAG	AGGGAGGGAG G	GAGGGCAGG CA	GCGGGGAG AAGT	TTCCCT GTGGT	CGTGG GGAGTT	GCCCTTCAAA
GATGAGCTGT	TCCCGCCGCC	ACTCCAGCTC	TGGCTTCTGG	GCTCCGAGGA	GGGGTGGGGA	CGGTGGTGAC
GGTGGGGACA	TCAGGCTGCC	CCGCAGTACC	AGGGAGCGAC	TGAAGTGCCC	ATGCCGCTTG	CTCCGGAGAA
GGTGGGTGCC	GGGCAGGGGC	TGCTCCAGCC	GCCTCACCTC	TGCTGGGAGG	ACAAACTGTC	CCAGCACAGA
GGGAGGGAGG	GAGGGCAGGC A	AGCGGGGAGA AG	TTTCCCTG TGGT	CGTGGG GAGTT	GAGCTCTTCA	ATATTTTAGT
GAAAGCTATA	GATGAGGCTC	CATAGGGGAT	AAAGCACAGA	CACACCTTTT	CAGAGGGCTT	GTGGACTCTG
GGCAGCCTGT	CCATAGACCT	CTGTCCCCAA	CTGGCAAGTC	AGGAAACTCC	AGATTAAGGA	GCCCCAATGT
GGTTGAACAG	CCAGGTGCAC	AGATGAGTCA	ACCACACAGC	CAGGCCAGGG	AGGGCCTTCA	CTCAAGAGCC
TACAGCCAGT	TCACAGCCAA	GCCAGGGCTA	GCGCCAGGCC	ACCCATAAAC	TGATCTGAGA	CTCTGTTTCC
CTGTCTCCAT	GATGATGGGA	TCAGGCTTGA	TTGCTGGTTT	GTAGGCTTGT	TATGAATCAA	GTCACAGGGA
AGAGGAGCTG	ATGGGCTGGG	GGGACGTCCT	CTGGCCCTCC	TGTCTCTTCC	CCAGATCCAC	TGGGCCCACT
CTTATCTGTT	CTCTTCTGAA	GGAAGGGTTT	TAAGGCTTCA	AAAAAAAATG	TTTTGAAAGT	CCCTGCCCTT
TCCAGCTCCT	ACCGTCTCAG	CCCTGGGAGT	GTAAAGTGCT	GCAGATAGTT	AGTAAGTCTT	TGAGCAAAAC
TGAGAAAGCC	AGCCTGAGCC	TTGACATGGG	AGAAACCTCC	GCCATACATC	TCCGAAGAAA	CGGCCGCGTG
TCTCAGGGGA	GCGCAAACAC	CCGTACCCAG	GAAACAGGAC	AGCTTCTGCC	ACTGTCGCCC	TTGGGAGCCG
TACGTGGCAT	GACAAAGAAA	TCCCAGGACT	CCGCCTGCCC	ACCTGGCCAC	CCTCTGTTTA	CACCTTCCGC
GTAAACGCCC	ACTGTTTACA	TCCAAAACTC	AGACACAAAA	TAACCACCTC	AAGAAGATAA	ATAATGATAA
GAAATAAATG	TTACGCGAGG	CAAATTTATT	CACATGGGGC	TTCCCAGGCC	ACTTTGTGGT	CAGCCGGGAG
GGACGTTTTT	GCCGTCCCAC	GACTCCAACG	GGCAGCCGGG	CCTACGCAAA	CATGGAAATC	TTCCAAGAGC
CTCCCTGGCC	CCCAGGGCTC	AGAGGGTGGC	AGAGCGGAGA	GCGAAGGTGG	CCGCAGCCTT	CCCGGCCCCA
CAGCCAGCCT	GGCTCCAGCT	GGGCAGGAGT	GCAGAGCTCA	GCTGGAGGCG	AGGGGGAAGT	GCCCAGGAGG
CTGATGACAT	CACTACCCAG	CCCTTCAAAG	ATGAGCTGTT	CCCGCCGCCA	CTCCAGCTCT	
CTCCGAGGAG	GGGTGGGGAC	GGTGGTGACG	GTGGGGACAT	CAGGCTGCCC	CGCAGTACCA	GGCTTCTGGG
GAAGTGCCCA	TGCCGCTTGC	TCCGGAGAAG	GTGGGTGCCG	GGCAGGGGCT	GCTCCAGCCG	GGGAGCGACT CCTCACCTCT
GCTGGGAGGA	CAAACTGTCC	CAGCACAGAG	GGAGGGAGGG	AGGGCAGGCA	GCGCGGGAGAA	GTTTCCCTGT
JULIUNA	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ひれひれいいん	ひひひひひひひひひ	としていいというと	AMDADDDDDD	CILICULICI
GGTCGTGGGG	AGTTGGGAAA AG	ተተርርርተተር ርተተር	ירפפשמת משמת			

(2) INFORMATION FOR SEQ ID NO:3019: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3019: CCCCGGCCCCCG CCTCGTGCC	19
(2) INFORMATION FOR SEQ ID NO:3020: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3020: CGTCCBTGCC GCGGGCCC	18
(2) INFORMATION FOR SEQ ID NO:3021: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3021: GCCCCGCTGC TTGGGCTGCT CTGCCGGG	28
(2) INFORMATION FOR SEQ ID NO:3022: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3022: TCTGTGCTCC TCTCGCCTGG G	21
(2) INFORMATION FOR SEQ ID NO:3023: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3023: TGGTGGGGTG GGTCTTGGTG G	21
(2) INFORMATION FOR SEQ ID NO:3024: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3024: CTGTCCCTGG TCCTGTG	17
 (2) INFORMATION FOR SEQ ID NO:3025: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	

(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3025:	
GGTCCCGCTT CTTC	14
(2) INFORMATION FOR ORD ID NO 2006	
(2) INFORMATION FOR SEQ ID NO:3026: (i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 19 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3026:	
GGGGTTGTTG TTGGTCTGG	10
GGGGTTGTTG TTGGTCTGG	19
(2) INFORMATION FOR SEQ ID NO:3027:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 14 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3027:	
TGTCCTCTTT CTGC	14
	1-1
(2) INFORMATION FOR SEQ ID NO:3028:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 14 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3028:	
GCCTCGGGCC TCCC	14
(2) INFORMATION FOR SEQ ID NO:3029:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 15 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3029:	
GGCTGGGGTC TGCGT	15
(2) INFORMATION FOR SEQ ID NO:3030:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 24 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3030:	
GGCCGGGGGT CGGTGGGTCC GCTG	24
(0) TVD0TW1MT0V PCT CTC	
(2) INFORMATION FOR SEQ ID NO:3031:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 22 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3031:	
GGGCTGGGGT GCTGGCTTGG GG	22
(2) INFORMATION FOR SEQ ID NO:3032:	
(2) INFORMATION FOR SEQ ID NO:3032:	

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 18 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3032:	
GGGGCTGGGG CCTGGGCC	18
0000010000 00100000	10
(2) INFORMATION FOR SEQ ID NO:3033:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 20 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3033:	
GCCTGGGTGG GCTTGGGGGC	20
(O) THEODINETON FOR CHO TRUE COO.	
(2) INFORMATION FOR SEQ ID NO:3034:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3034:	
GCTGGGTCTG TGCTGTTGCC	20
(2) INFORMATION FOR SEQ ID NO:3035:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 15 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3035:	
GTTGTGTGGG GGGCC	15
(2) INFORMATION FOR SEQ ID NO:3036:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 27 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3036:	
GCTGGGTCGG GGGGCCTCTG GGCTGTC	27
(2) INFORMATION FOR SEQ ID NO:3037:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 14 base pairs	
(B) TYPE: nucleic acid	
<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3037:	
GCCCCGGGGC CCCC	14
	14
(2) INFORMATION FOR SEQ ID NO:3038:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 14 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3038:	
TGGCTCCCCC CTCC	14

(2) INFORMATION FOR SEQ ID NO:3039: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3039: GCTCCCCCCT TTCC	14
(2) INFORMATION FOR SEQ ID NO:3040: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3040: CGGACGAAGA CAGAGA	16
(2) INFORMATION FOR SEQ ID NO:3041: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3041: GGCTTTGTGG GCTC	14
(2) INFORMATION FOR SEQ ID NO:3042: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3042: GCCTGCTCTC CCCC	14
(2) INFORMATION FOR SEQ ID NO:3043: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3043: CCCCGGCCCCG CCBCGBBCC	19
 (2) INFORMATION FOR SEQ ID NO:3044: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3044: 	
CCCGGCCCCG CCBCG (2) INFORMATION FOR SEQ ID NO:3045: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid	15

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3045: CCCGGCCCCG CCBCGBBCC	19
(2) INFORMATION FOR SEQ ID NO:3046: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3046: CCCCGGCCCCG CCBCG	15
 (2) INFORMATION FOR SEQ ID NO:3046: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2344: CCCGBCCCCG CCTCBBG	17
 (2) INFORMATION FOR SEQ ID NO:3047: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3047: CCCGBCCCCG CCTC	14
(2) INFORMATION FOR SEQ ID NO:3048: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3048: CCGGCCCCGC CTC	13
(2) INFORMATION FOR SEQ ID NO:3049:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3049: CCCCGBBCCCG CBTBGTGCC	19
(2) INFORMATION FOR SEQ ID NO:3050: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3050: CCCGCBTBGT GCC	13
(2) INFORMATION FOR SEQ ID NO:3051:	

403254.1 73999/01905

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3051: CCCCGGBCCCB CCBBGTGCC	19
(2) INFORMATION FOR SEQ ID NO:3052: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3052: CBGBBCCCGC CTCGTGCC	18
(2) INFORMATION FOR SEQ ID NO:3053: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3053: CCCCGCCTCGT GCC	13
(2) INFORMATION FOR SEQ ID NO:3054: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3054: CCGGCBCCGC CTCBTGCC	18
(2) INFORMATION FOR SEQ ID NO:3055: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3055: CCGGCCCCGC CBCBTGCC	18
(2) INFORMATION FOR SEQ ID NO:3056: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3056: CCCGBCCCCG BCTCG	15
(2) INFORMATION FOR SEQ ID NO:3057: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3057:	15

(2) INFORMATION FOR SEQ ID NO:3058: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3058: CCCCGGCCCBG CCTBG	15
(2) INFORMATION FOR SEQ ID NO:3059: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3059: CCCCGGCBCBG BCTCGTBCC	19
(2) INFORMATION FOR SEQ ID NO:3060: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3060: CCCCGGCCCCCG CCBCG	15
(2) INFORMATION FOR SEQ ID NO:3061: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3061: CCCCGGCCCCCG CCBCG	15
(2) INFORMATION FOR SEQ ID NO:3062: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3062: TCCBTGCCGC GGGC	14
(2) INFORMATION FOR SEQ ID NO:3063: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3063: TCCBTGCCBC GGGCC	15
 (2) INFORMATION FOR SEQ ID NO:3064: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 	

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3064: TCCBTGCCBC GGGCC	15
(2) INFORMATION FOR SEQ ID NO:3065: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3065: TCCBTGCCBC BGGCC	15
(2) INFORMATION FOR SEQ ID NO:3066: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3066: GTCCBTGBCG CGG	13
 (2) INFORMATION FOR SEQ ID NO:3067: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3067: 	13
TCCBTGBCGC GGG (2) INFORMATION FOR SEQ ID NO:3068: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	13
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3068: TCTGBGCTCC TCTBBCCTGG G (2) INFORMATION FOR SEQ ID NO:3069: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	21
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3069: CTGTGCBCCT BBCBCCTGGG	20
(2) INFORMATION FOR SEQ ID NO:3070: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3070:	10
TGTGBTCCBC TBGBCTGGG (2) INFORMATION FOR SEQ ID NO:3071:	19

(i) SEQUENCE CHARACTERISTICS:

/A \ T TENOMIT 1 0 1	,
(A) LENGTH: 19 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
	0 TD NO 2054
(xi) SEQUENCE DESCRIPTION: SE	Q ID NO:3071:
TCTGTBCTCB BCTCBCCTG	19
(2) INFORMATION FOR SEQ ID	NO · 3072 ·
(i) SEQUENCE CHARACTERISTICS:	10.5072.
(A) LENGTH: 17 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SE	Q ID NO:3072:
TGCTCCTCBC BBCTGGG	17
(2) INFORMATION FOR SEQ ID	NO.3073.
	10.3073.
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 14 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SE	Q ID NO:3073:
CTCCTCTBGC CTGG	14
(2) INFORMATION FOR SEQ ID	NO 2074
	NO:3074:
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 18 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
_	·
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEG	Q ID NO:3074:
GTGCTCCBBT CBBCTGGG	18
	10
(2) INCODMATION FOR GEO ID	NO 2005
(2) INFORMATION FOR SEQ ID	NO:3075:
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 18 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ) ID NO:3075:
GTGCBCCBBT CBCCTGGG	18
(2) INFORMATION FOR ORG ID	NO 2006
(2) INFORMATION FOR SEQ ID	NO:3076:
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 18 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ	ID NO:3076:
TCTGTGCBCC TCTBGBCT	18
	10
(2) INDODMARION DOD COO TO	NO 2000
(2) INFORMATION FOR SEQ ID	NO:30//:
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 16 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
/c/ pirampenness: Sindie	
(D) TOPOLOGY: linear	
	ID NO:3077:

1354

(2) INFORMATION FOR SEQ ID NO:3078: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3078: TGTGCTBBTC BCBCBTGGG	19
(2) INFORMATION FOR SEQ ID NO:3079: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3079: GTGCBCCBCT CBCCTG	16
(2) INFORMATION FOR SEQ ID NO:3080: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3080: CTGTGCBCCT CTC (2) INFORMATION FOR SEQ ID NO:3081:	13
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3081: CBGTGCBCCB CTCBCCTG (2) INFORMATION FOR SEQ ID NO:3082: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs	18
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3082: GTGCBCCBCT CBCCTG (2) INFORMATION FOR SEQ ID NO:3083: (i) SEQUENCE CHARACTERISTICS:	16
(A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3083: CBCCTCTCBC CTGGG (2) INFORMATION FOR SEQ ID NO:3084: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs	15

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3084: CCTCTCBCCT GGG	13
(2) INFORMATION FOR SEQ ID NO:3085:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 13 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3085:	
GCTCCBCTCG CCT	13
(2) INFORMATION FOR SEQ ID NO:3086:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 13 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3086: TGCTCCTCBC GCC	
IGCICCICBC GCC	13
(2) INFORMATION FOR SEQ ID NO:3087:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 13 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3087: GTTGTTGBTC TGG	
GITGITGBIC IGG	13
(2) INFORMATION FOR SEQ ID NO:3088:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 18 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3088: GGTTGBBBTT GGTCTTGG	
GG11GBBB11 GG1C11GG	18
(2) INFORMATION FOR SEQ ID NO:3089:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 16 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3089: GGTTGTTGBT GBTCTG	3.0
GOTTOTTODI GDICIO	16
(2) INFORMATION FOR SEQ ID NO:3090:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 18 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3090: GGGTTBBBGT TGBTCTGG	
GGG11BBBG1 1GB1C1GG	18
(2) INFORMATION FOR SEQ ID NO:3091:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3091: GGGTTBBBGT TGBTCTGG	18
(2) INFORMATION FOR SEQ ID NO:3092: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3092: TTGTTGTBGB TCTGG	15
 (2) INFORMATION FOR SEQ ID NO:3093: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3093: 	
(2) INFORMATION FOR SEQ ID NO:3094: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	18
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3094: GGGTCBGBGG BTCBGCTG (2) INFORMATION FOR SEQ ID NO:3095: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	18
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3095: GGGTBGGTGG GTC (2) INFORMATION FOR SEQ ID NO:3096:	13
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3096: GGGTCGGBGG GTCBGC	16
 (2) INFORMATION FOR SEQ ID NO:3097: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3097: 	
CCTGGGTGGG CTT	13

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(2) INFORMATION FOR SEQ ID NO:3098:(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 13 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3098:
GGGTGGGCTT GGG
(2) INFORMATION FOR SEQ ID NO:3099:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 16 base pairs
(B) TYPE: nucleic acid (C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3099:
CCTGGGTGGG BBTGGG
·
(2) INFORMATION FOR SEQ ID NO:3100:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 16 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3100:
CCTGGBTGGG CBTGGG
(2) INFORMATION FOR SEQ ID NO:3101: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3101: GCCTGBGTGB BCTTGGG
(2) INFORMATION FOR SEQ ID NO:3102:
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3102:
CCCAVGVCCV CCCAGGC
(2) INFORMATION FOR SEQ ID NO:3103:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 13 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single (D) TOPOLOGY: linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3103:
AGCCCACCCA GGC
(2) INFORMATION FOR SEC ID NO.3104.

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single

(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3104: BCCTGGGTGG GCTB	14
(2) INFORMATION FOR SEQ ID NO:3105: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3105: GGTGGGCTTG GG	12
(2) INFORMATION FOR SEQ ID NO:3106: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3106: CCBBGGTGGG CTTGGG	16
(2) INFORMATION FOR SEQ ID NO:3107:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3107: CTGGGTGGGB BTGGG 	15
(2) INFORMATION FOR SEQ ID NO:3108: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3108: CCBGGGTGGG CTTGG	15
(2) INFORMATION FOR SEQ ID NO:3109: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3109: GGGTGGGCTT GG	. 12
 (2) INFORMATION FOR SEQ ID NO:3110: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3110: 	
CCTGBGTGBG CBTGGG	16

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